

PROJECT TITLE

Plugging into the future: An Exploration of Electricity
Consumption Patterns





SMARTBRIDGE
Let's Bridge the Gap

Powered by



TEAM MEMBERS:

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- Team member : J.DIVYAPRIYAN



INTRODUCTION

- India is the world's third largest producer and third largest consumer of electricity.
- Electricity consumption represents the amount of electrical energy that has been consumed over a specific time, its unit is Wh.
- Electric power consumption measures the production of power plants and combined heat and power plants less transmission, distribution, and transformation losses and own use by heat and power plants.

TASK 1:

EMPATHY MAP:

Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

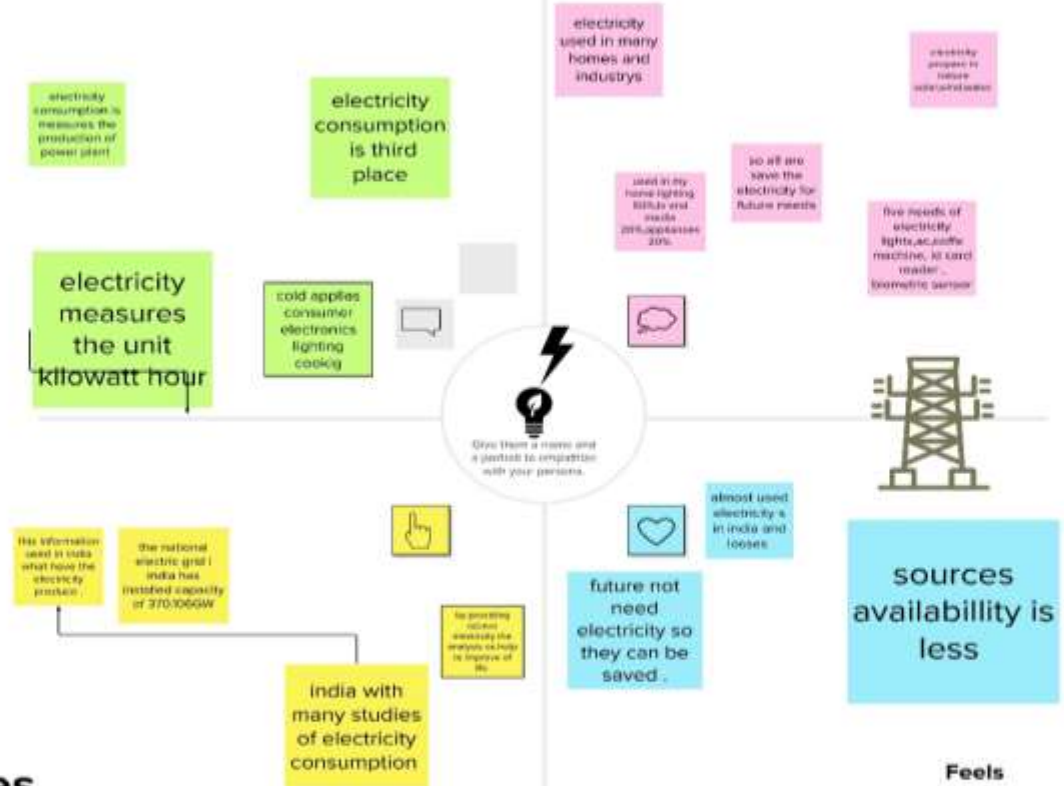
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Says

What have we heard them say?
What can we imagine them saying?

Thinks

What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?



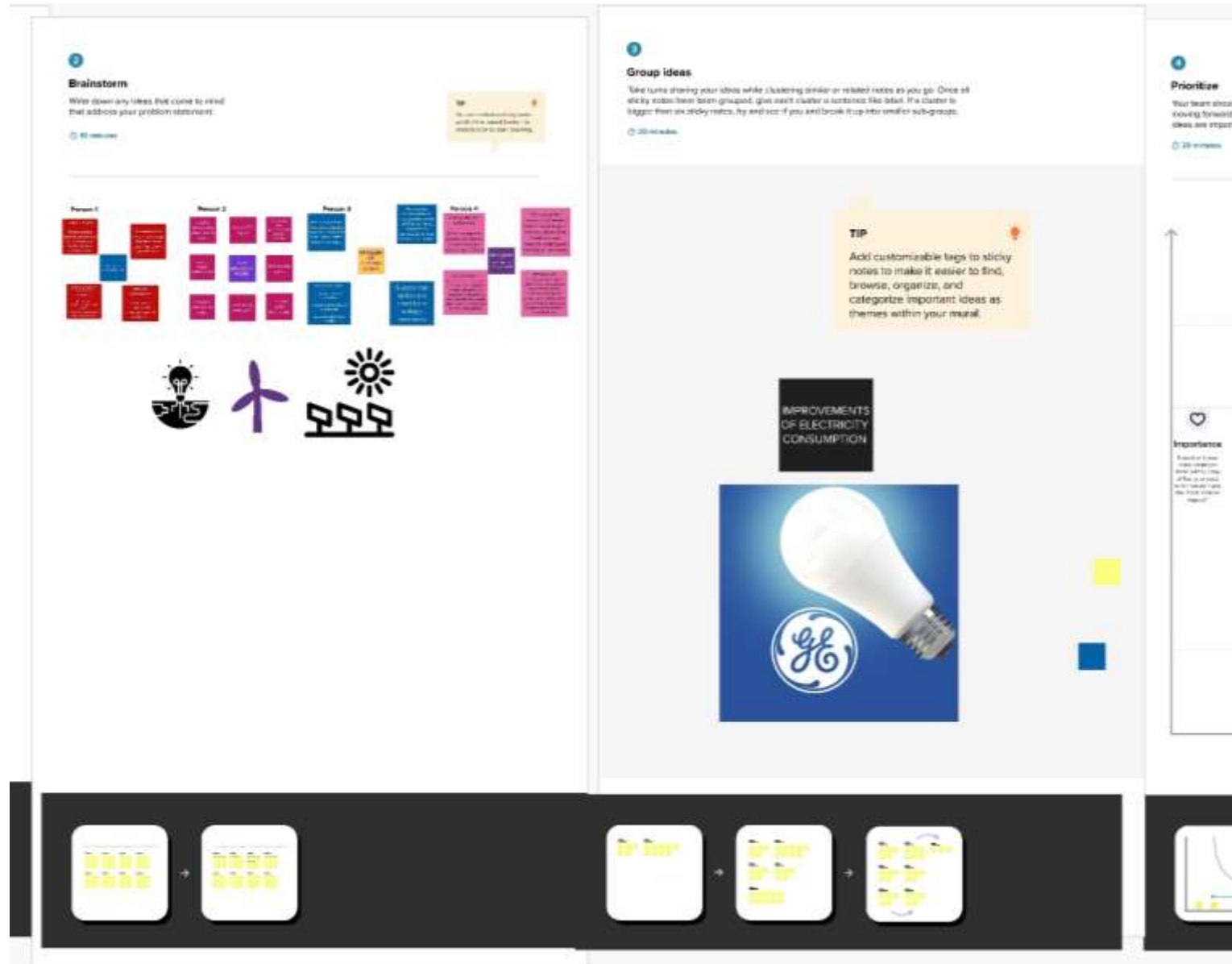
Does

What behavior have we observed?
What can we imagine them doing?

Feels

What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?

BRAINSTORMING AND IDEA PRIORTIZATION



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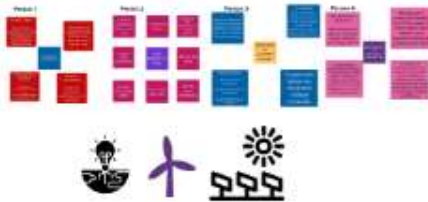
Plant cover
Inglis et al.
2010

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<ul style="list-style-type: none"> • Non-urgent • Urgent • Emergency 	<ul style="list-style-type: none"> • Non-urgent • Urgent • Emergency
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10 The last number in the code tells you which of the general categories the company is in, or its business code.

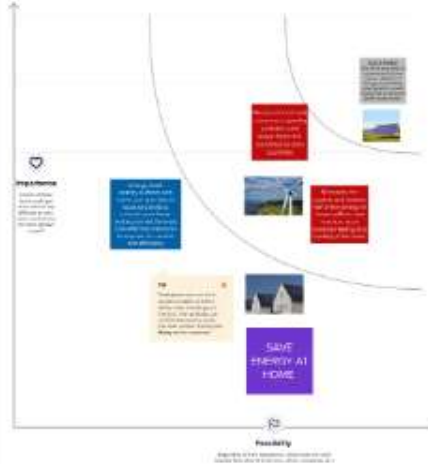


Tip
Add customizable tags to sticky notes to make it easier to find, remove, organize, and categorize important ideas as themed within your mind.

IMPROVEMENTS OF R ACTIVITY CONSUMPTION



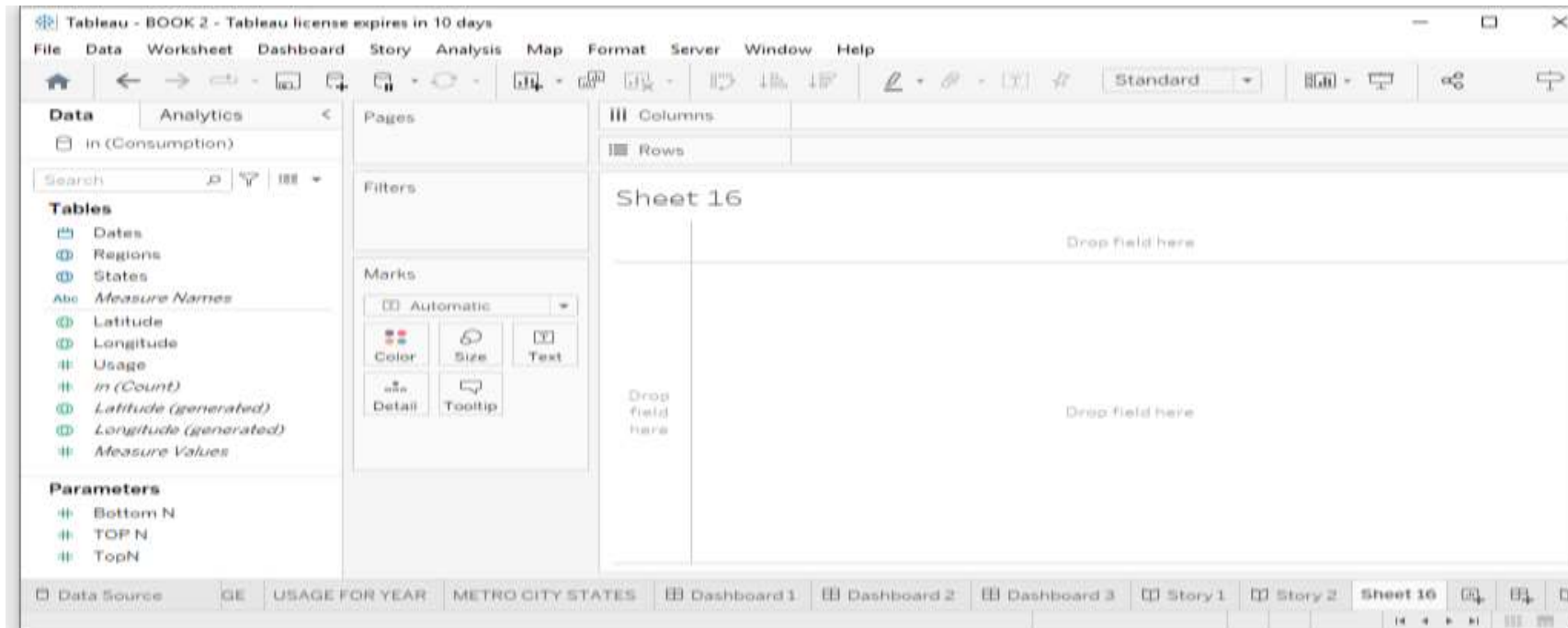
24



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TASK:2

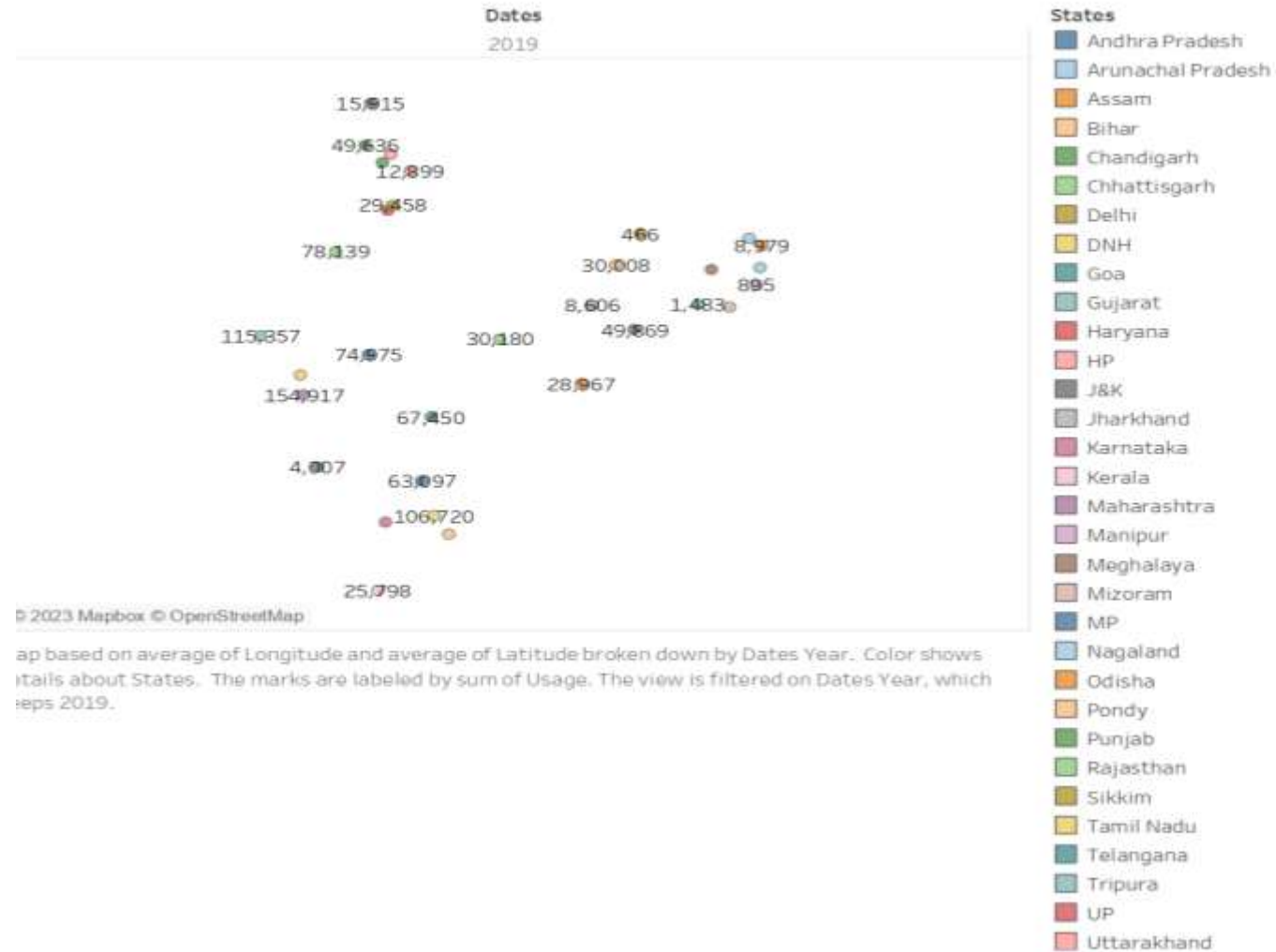
- The second task of project is include the data collection.
- The tableau app install and the data sheet is connected the tableau.



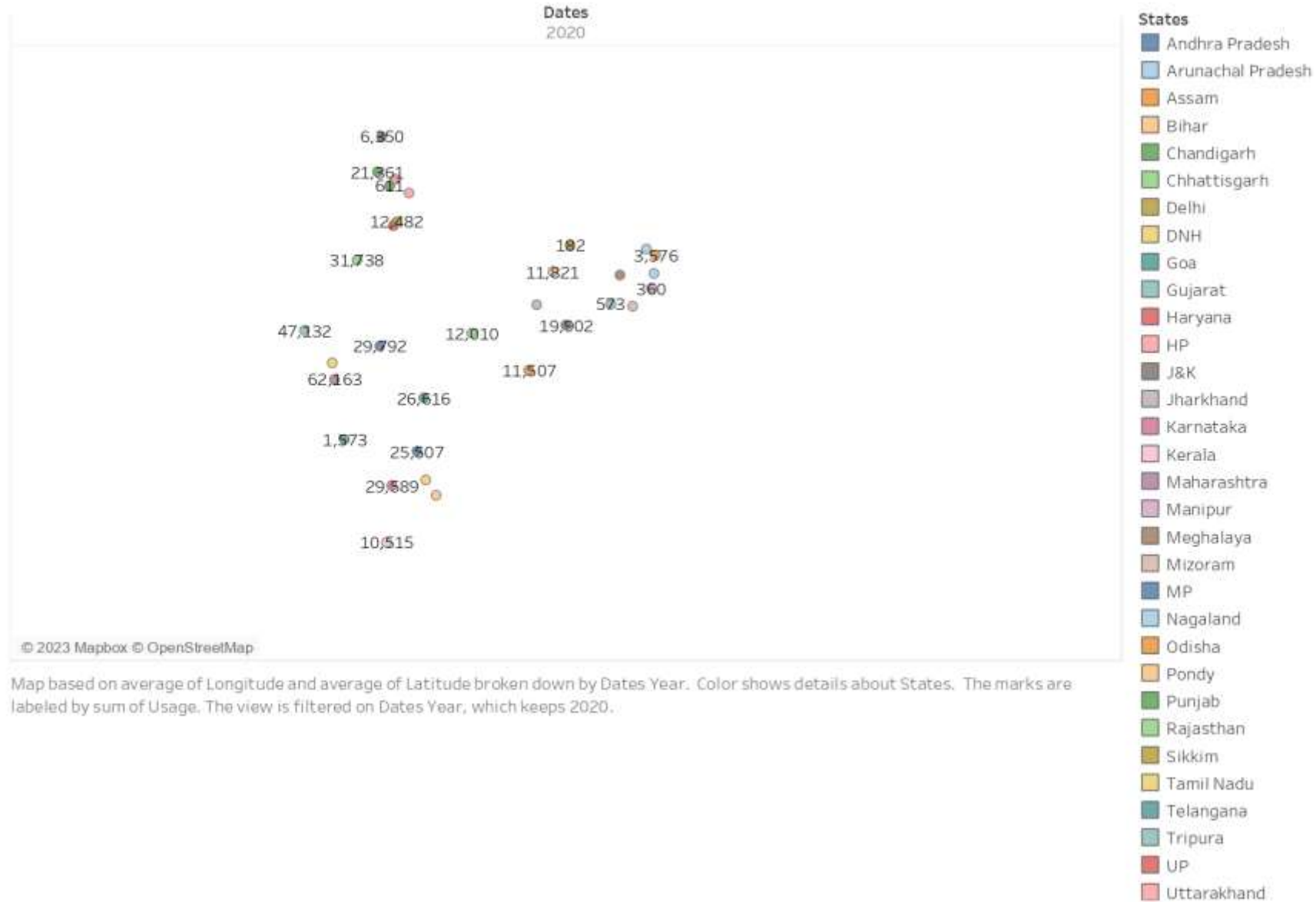
TASK:3

VISUALISATION

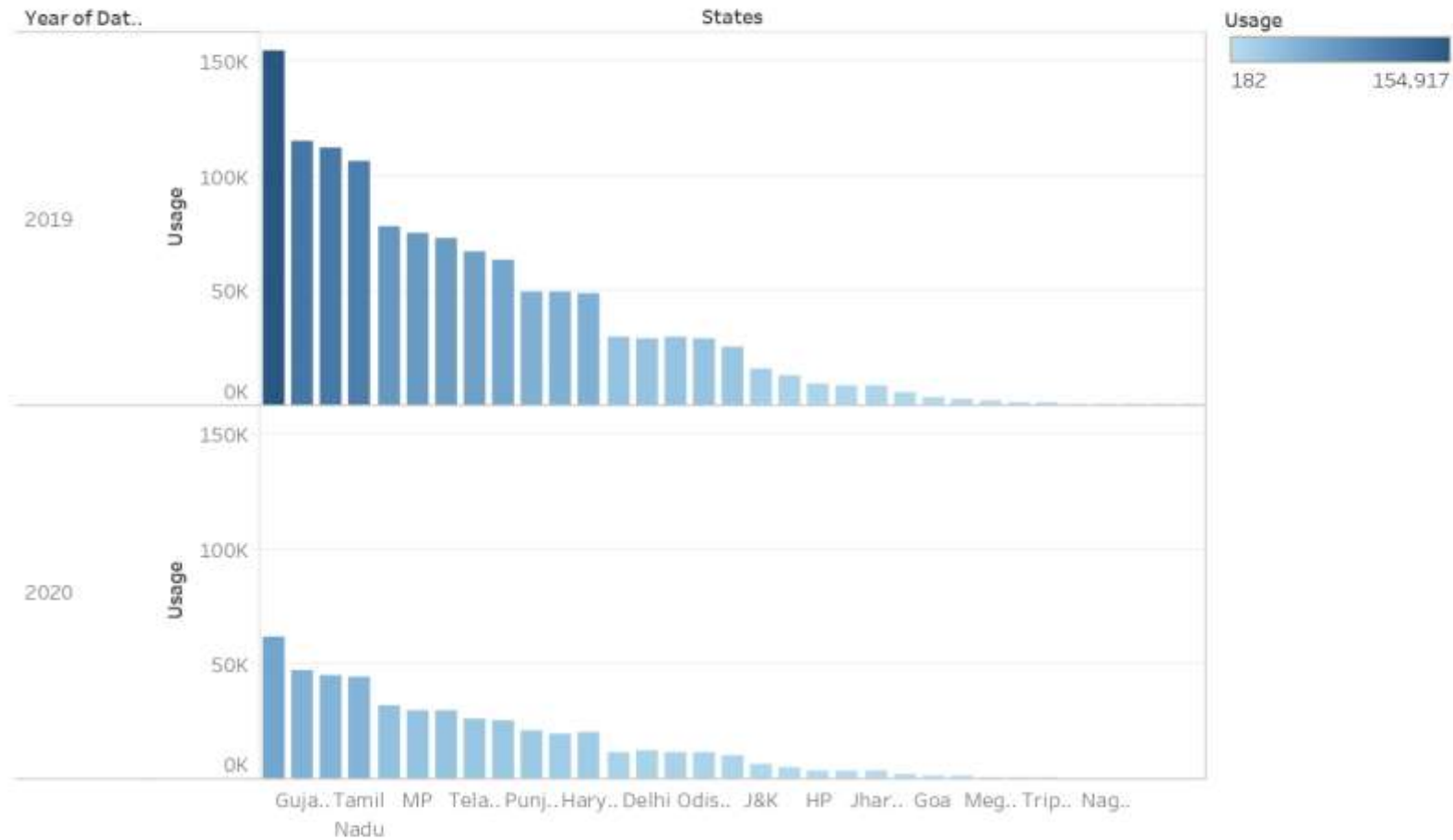
2019 STATE CONSUMPTION



2020 STATE CONSUMPTION

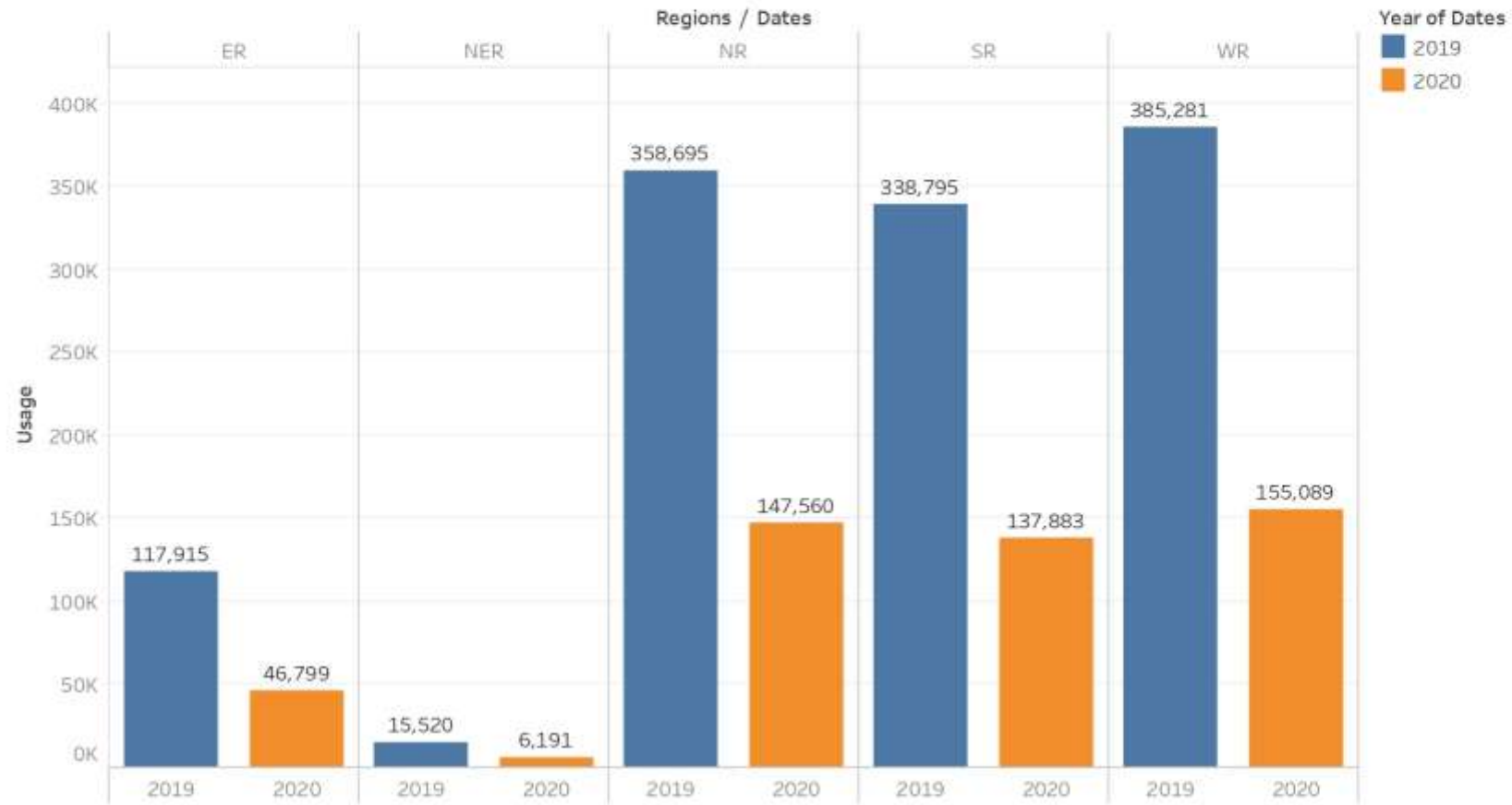


TOTAL CONSUMPTION



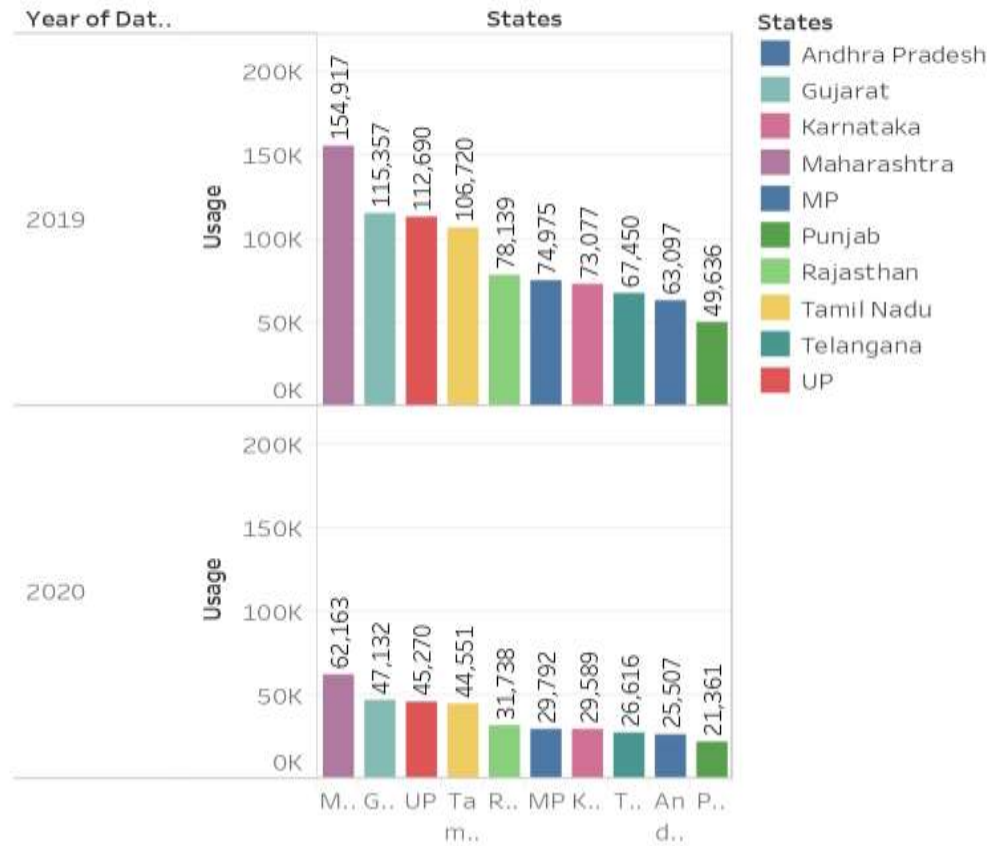
Sum of Usage for each States broken down by Dates Year. Color shows sum of Usage.

USAGE BY REGION



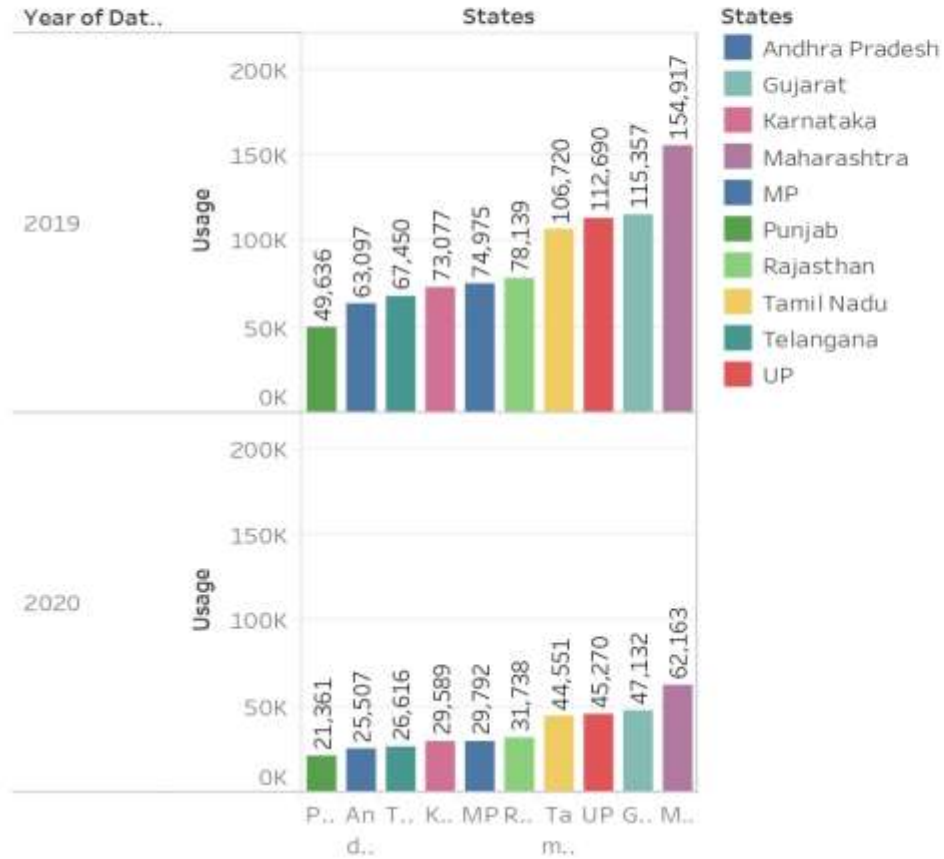
Sum of Usage for each Dates Year broken down by Regions. Color shows details about Dates Year.

TOP N



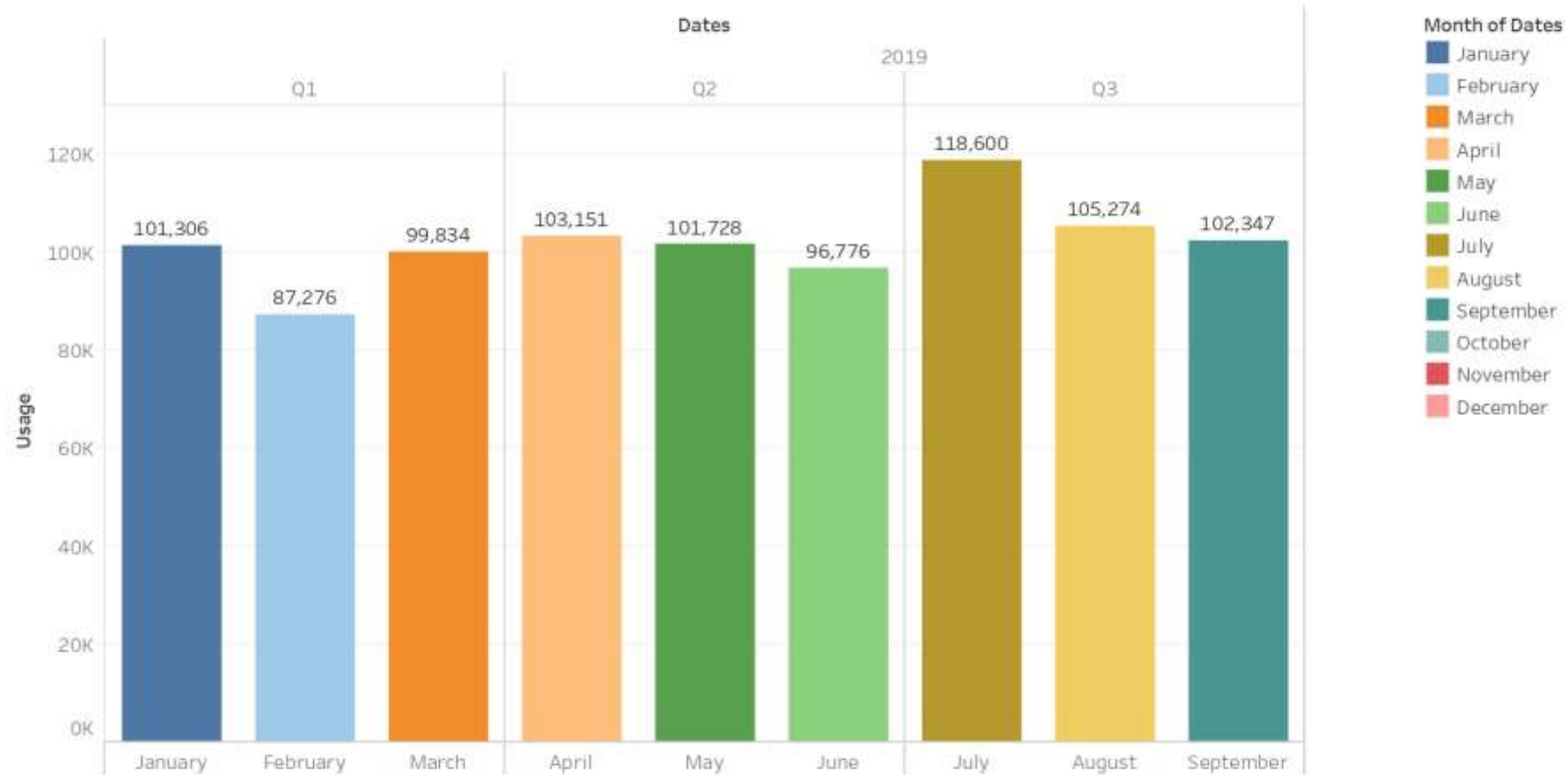
Sum of Usage for each States broken down by Dates Year.
 Color shows details about States. The view is filtered on
 Dates Year and States. The Dates Year filter keeps 2019 and
 2020. The States filter keeps 10 of 33 members.

BOTTOM N



Sum of Usage for each States broken down by Dates Year.
 Color shows details about States. The view is filtered on
 Dates Year and States. The Dates Year filter keeps 2019 and
 2020. The States filter keeps 10 of 33 members.

2019 MONTH WISE CONSUMPTION



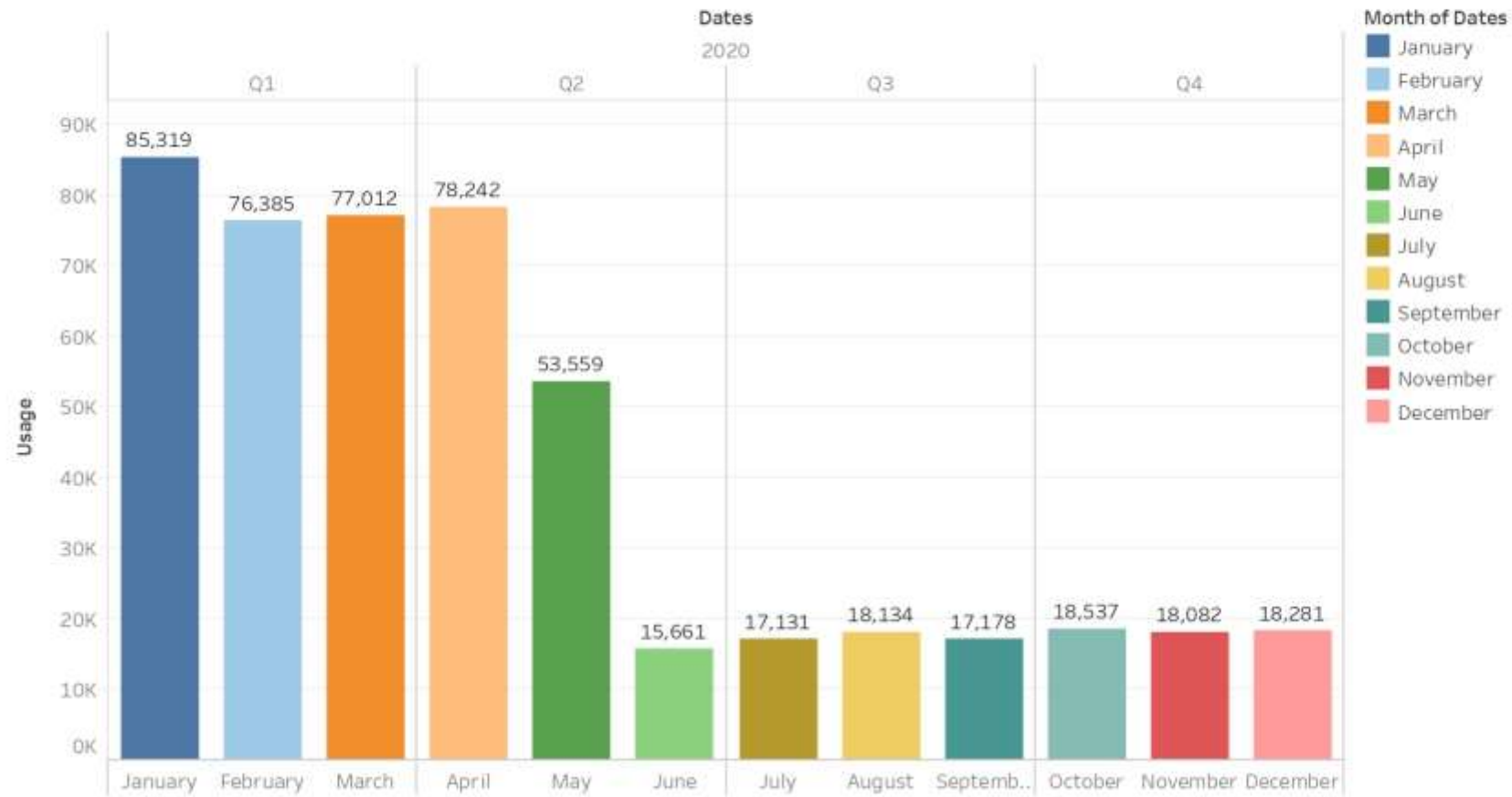
Sum of Usage for each Dates Month broken down by Dates Year and Dates Quarter. Color shows details about Dates Month. The view is filtered on Dates Year, which keeps 2019.

2019 MONTH WISE CONSUMPTION



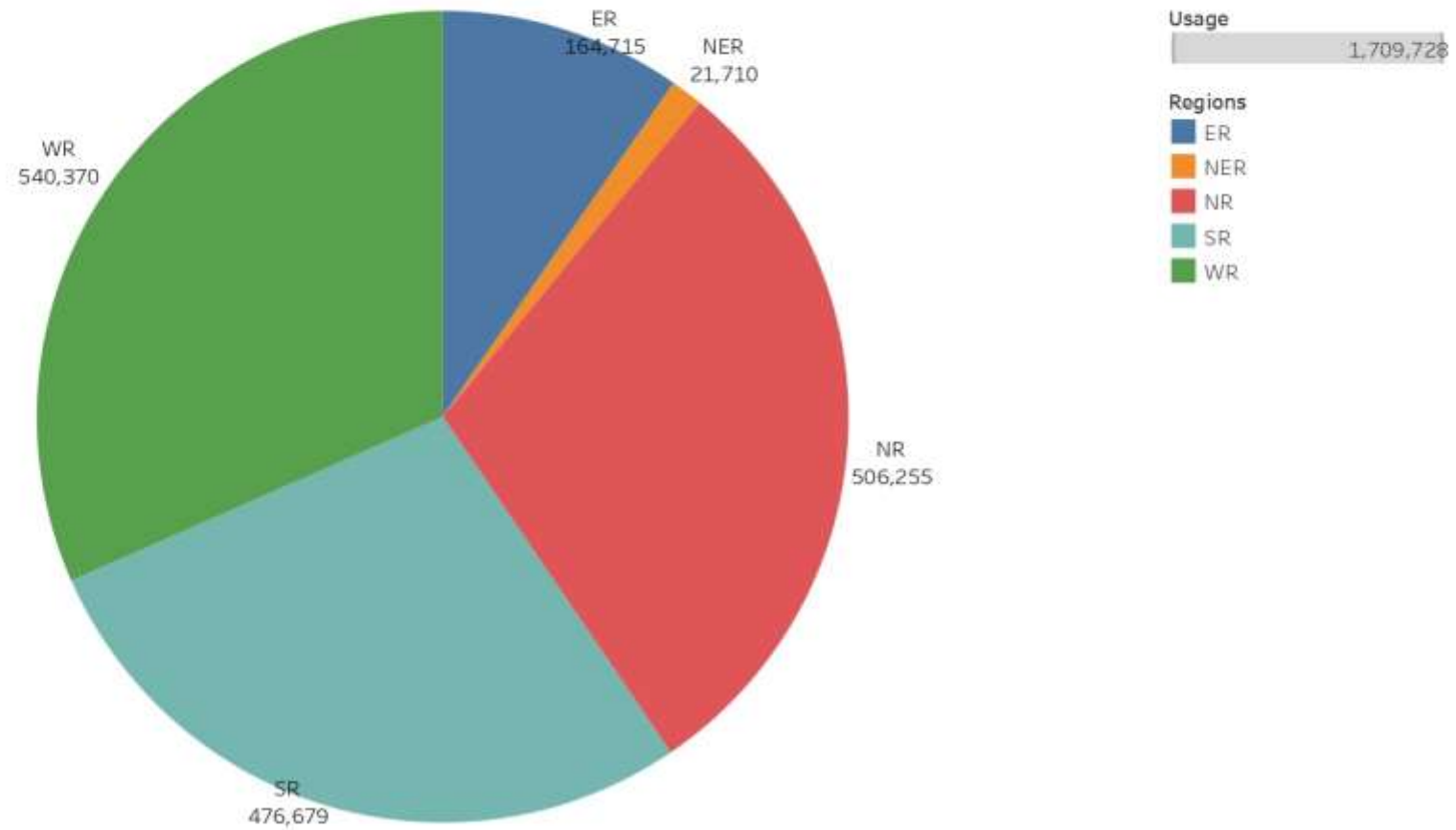
Sum of Usage for each Dates Month broken down by Dates Year and Dates Quarter. Color shows details about Dates Month. The view is filtered on Dates Year, which keeps 2019.

2020 MONTH WISE CONSUMPTION



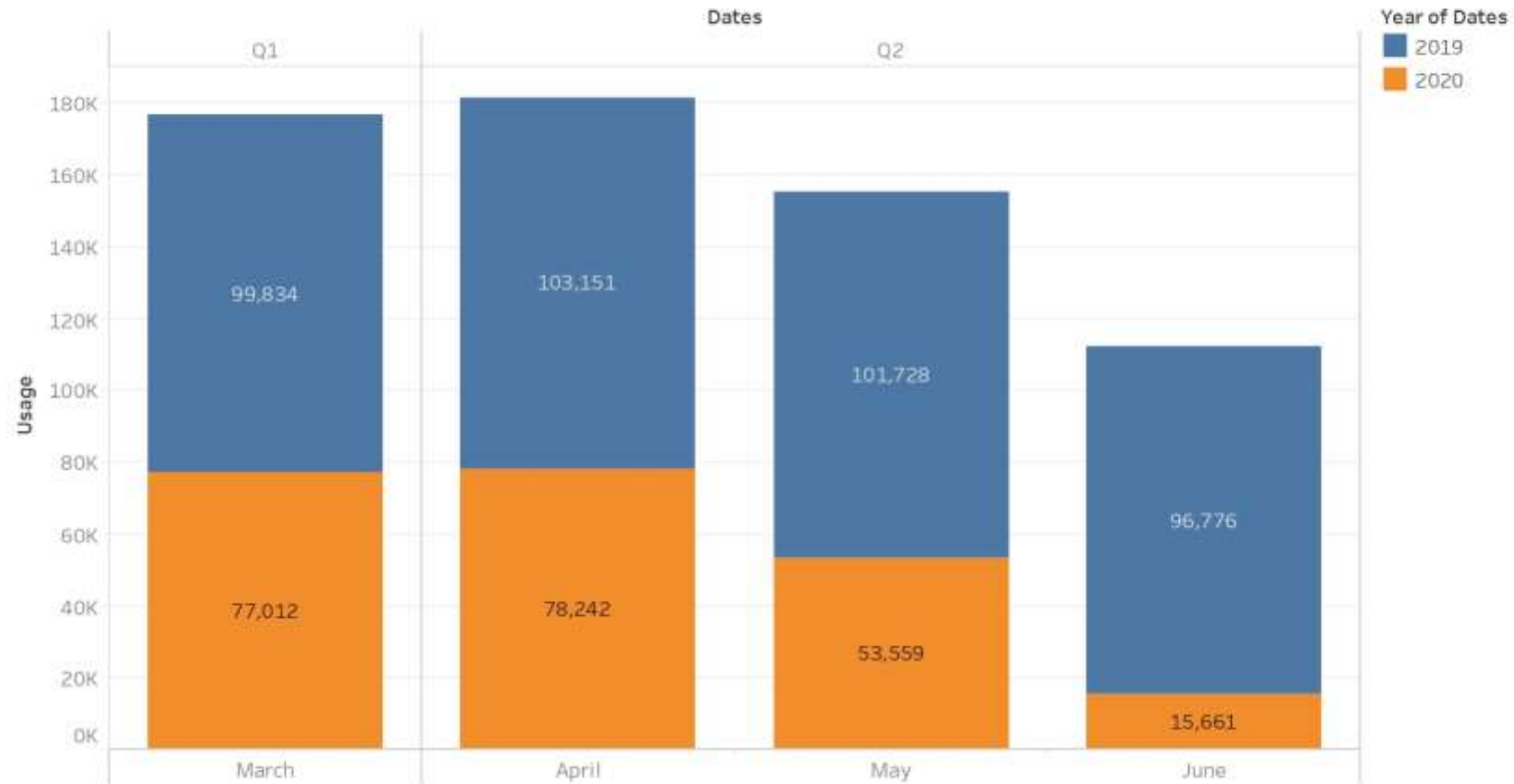
Sum of Usage for each Dates Month broken down by Dates Year and Dates Quarter. Color shows details about Dates Month. Details are shown for Dates Quarter. The view is filtered on Dates Year, which keeps 2020.

TOTAL REGION CONSUMPTION



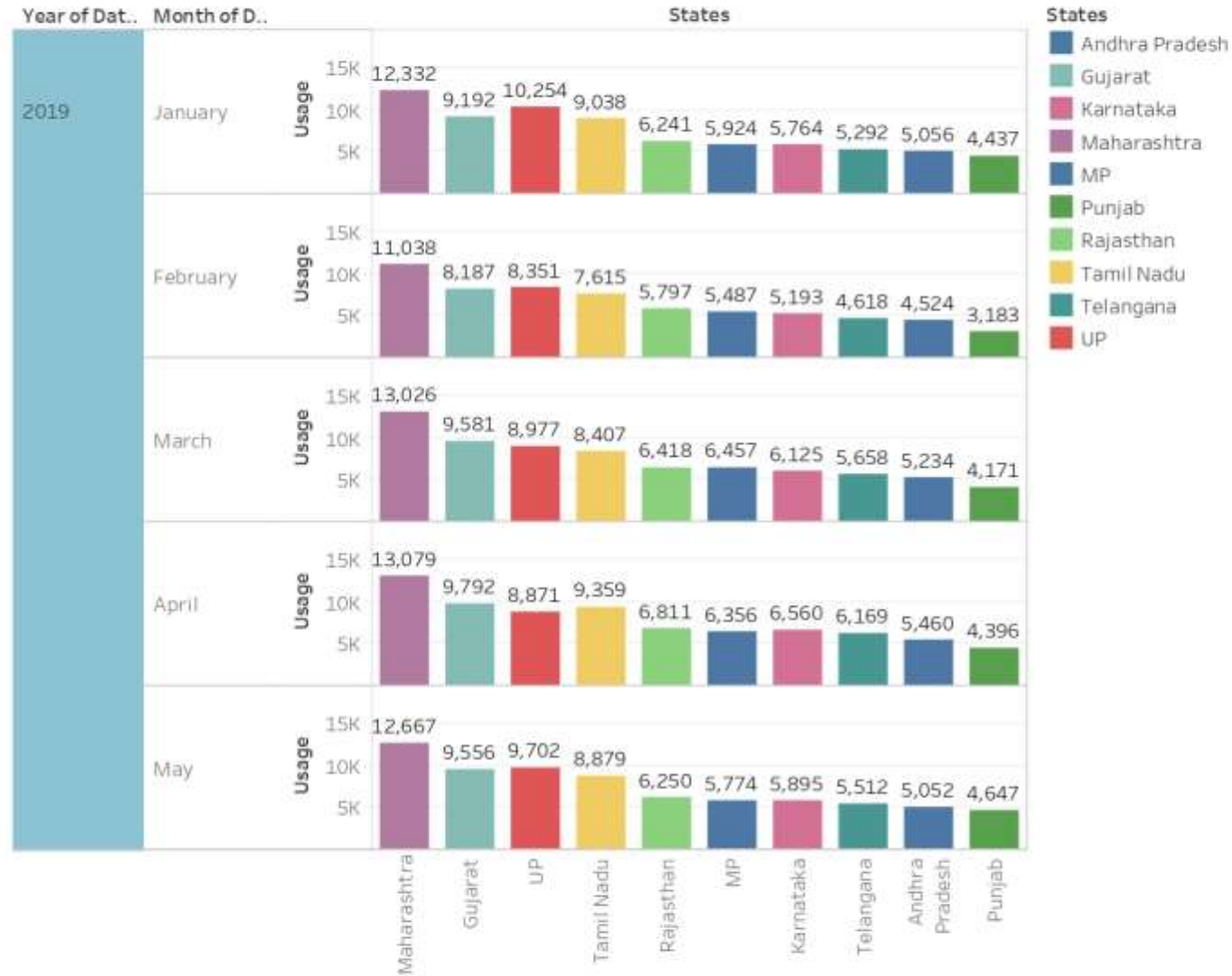
Regions and sum of Usage. Color shows details about Regions. Size shows sum of Usage. The marks are labeled by Regions and sum of Usage.

USAGE BEFORE AND DURING LOCKDOWN



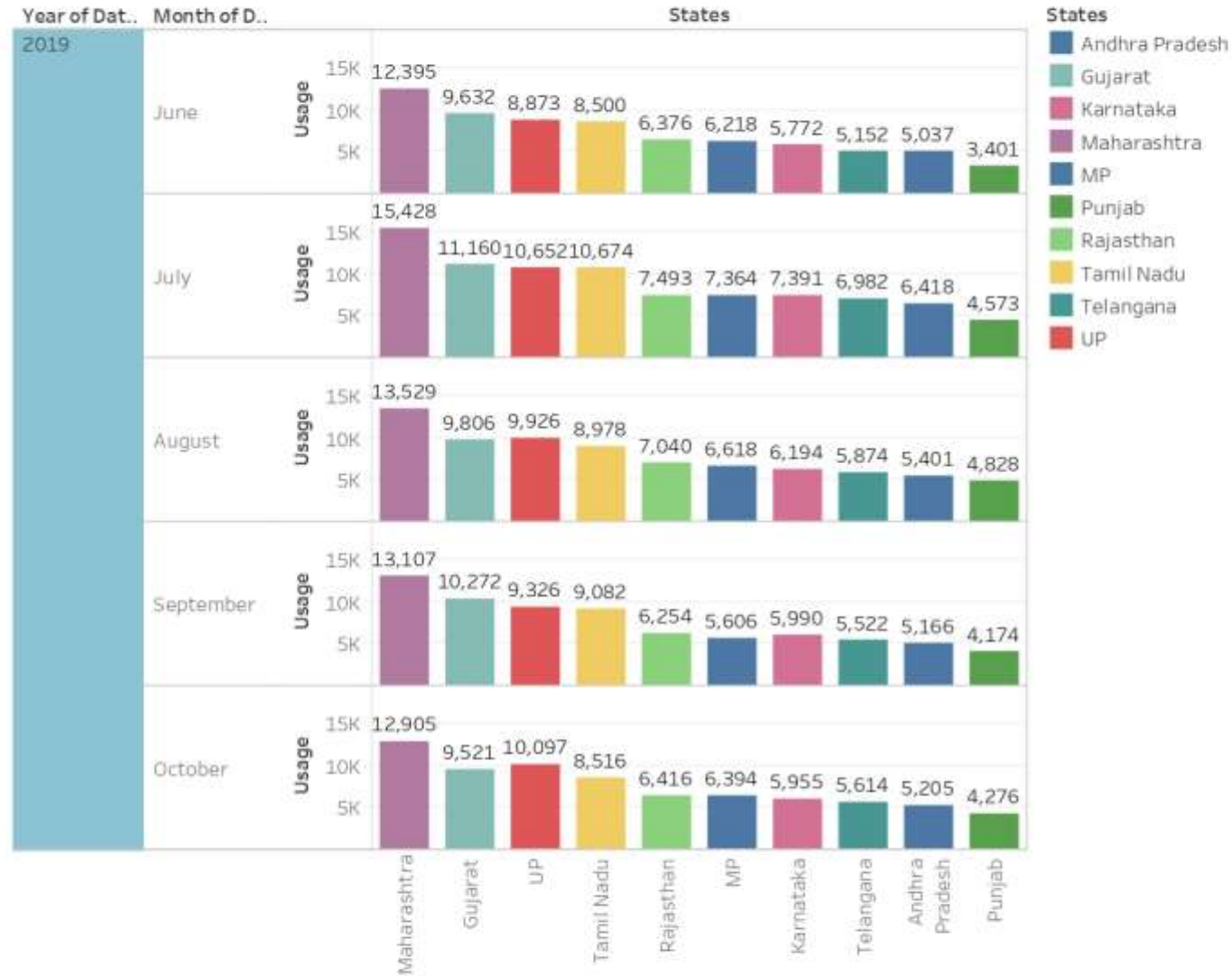
Sum of Usage for each Dates Month broken down by Dates Quarter. Color shows details about Dates Year. The view is filtered on Dates Month, which keeps March, April, May and June.

MONTH WISE TOP CONSUMPTION



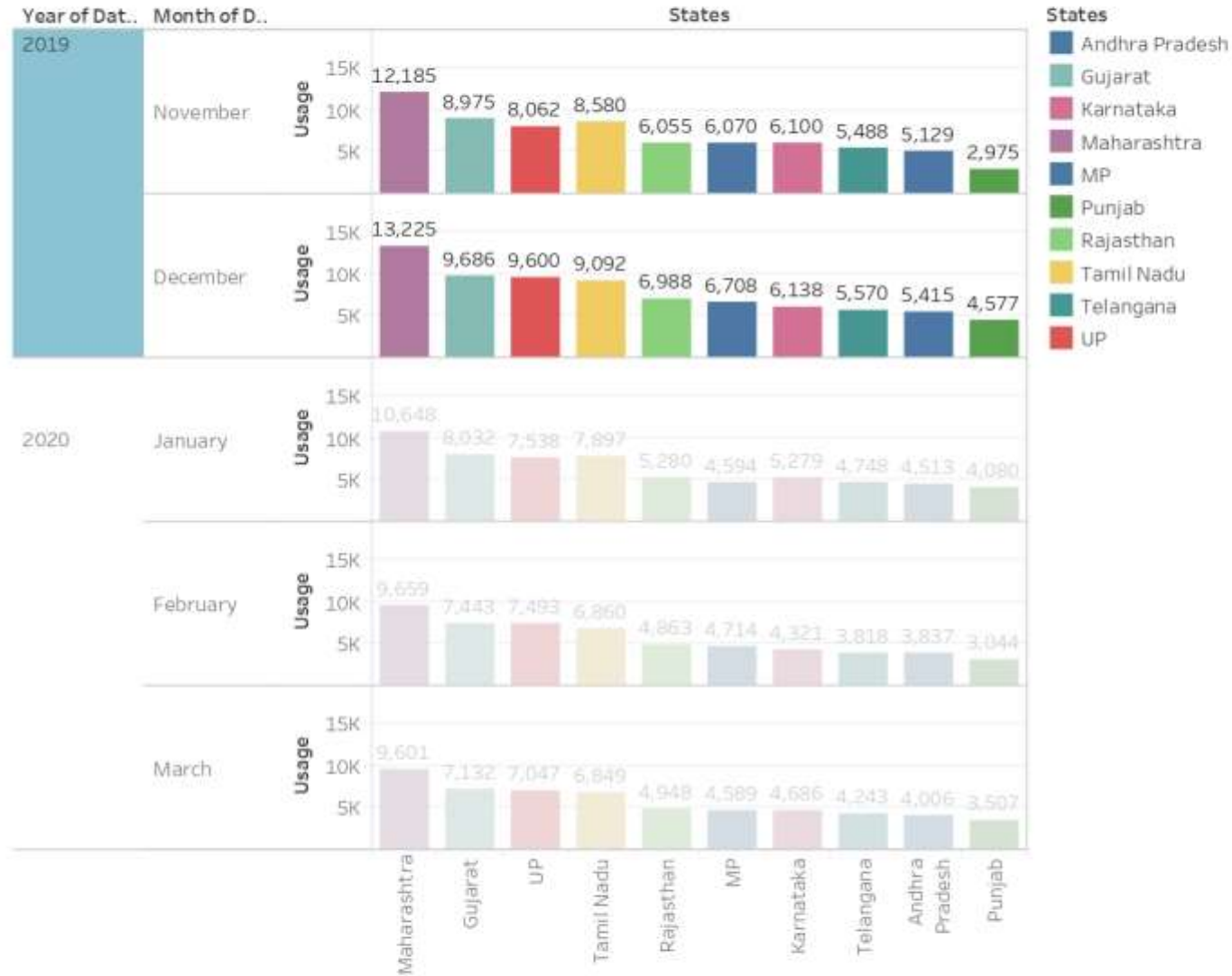
Sum of Usage for each States broken down by Dates Year and Dates Month. Color shows details about States. The view is filtered on States, which keeps 10 of 33 members.

MONTH WISE TOP CONSUMPTION



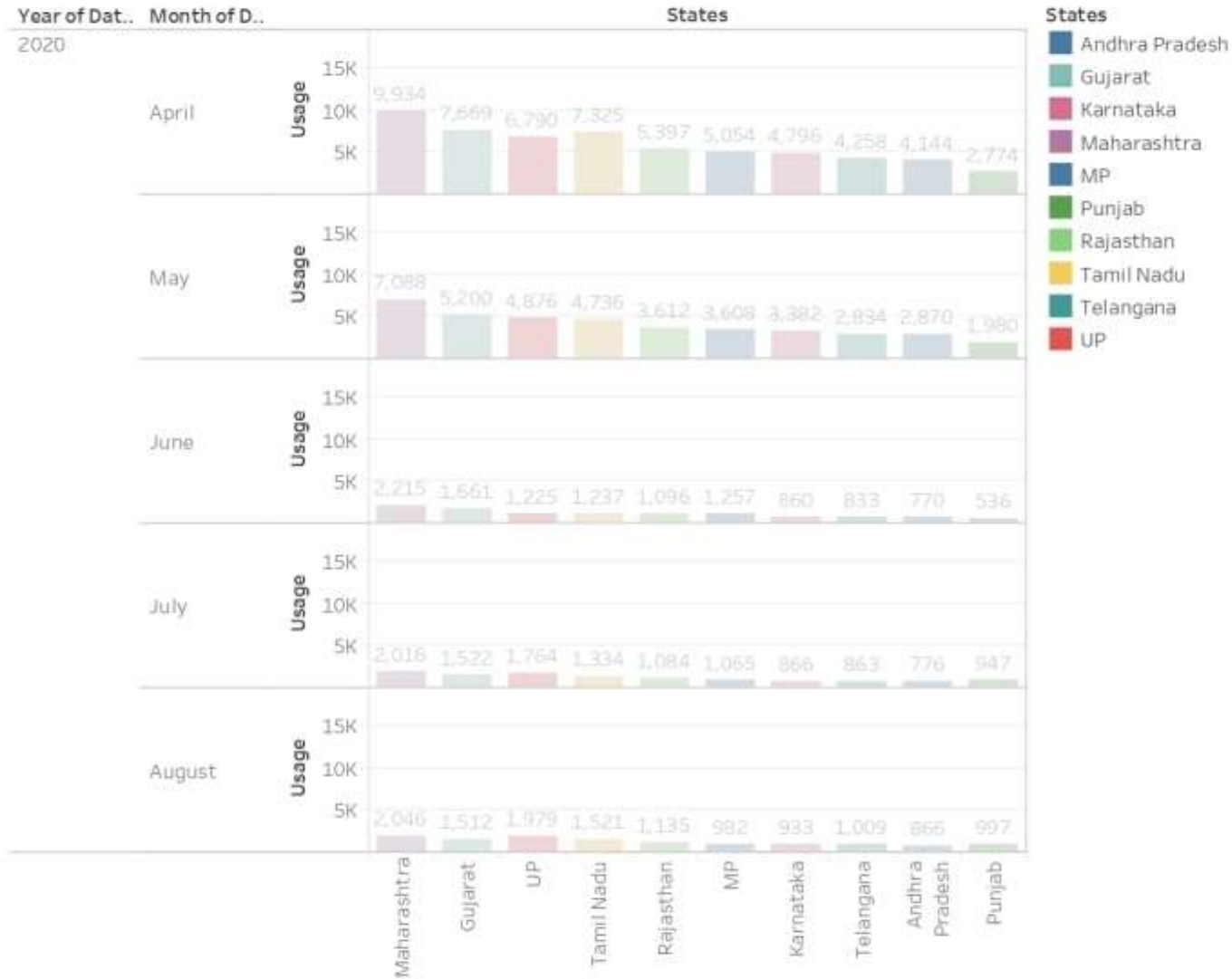
Sum of Usage for each States broken down by Dates Year and Dates Month. Color shows details about States. The view is filtered on States, which keeps 10 of 33 members.

MONTH WISE TOP CONSUMPTION



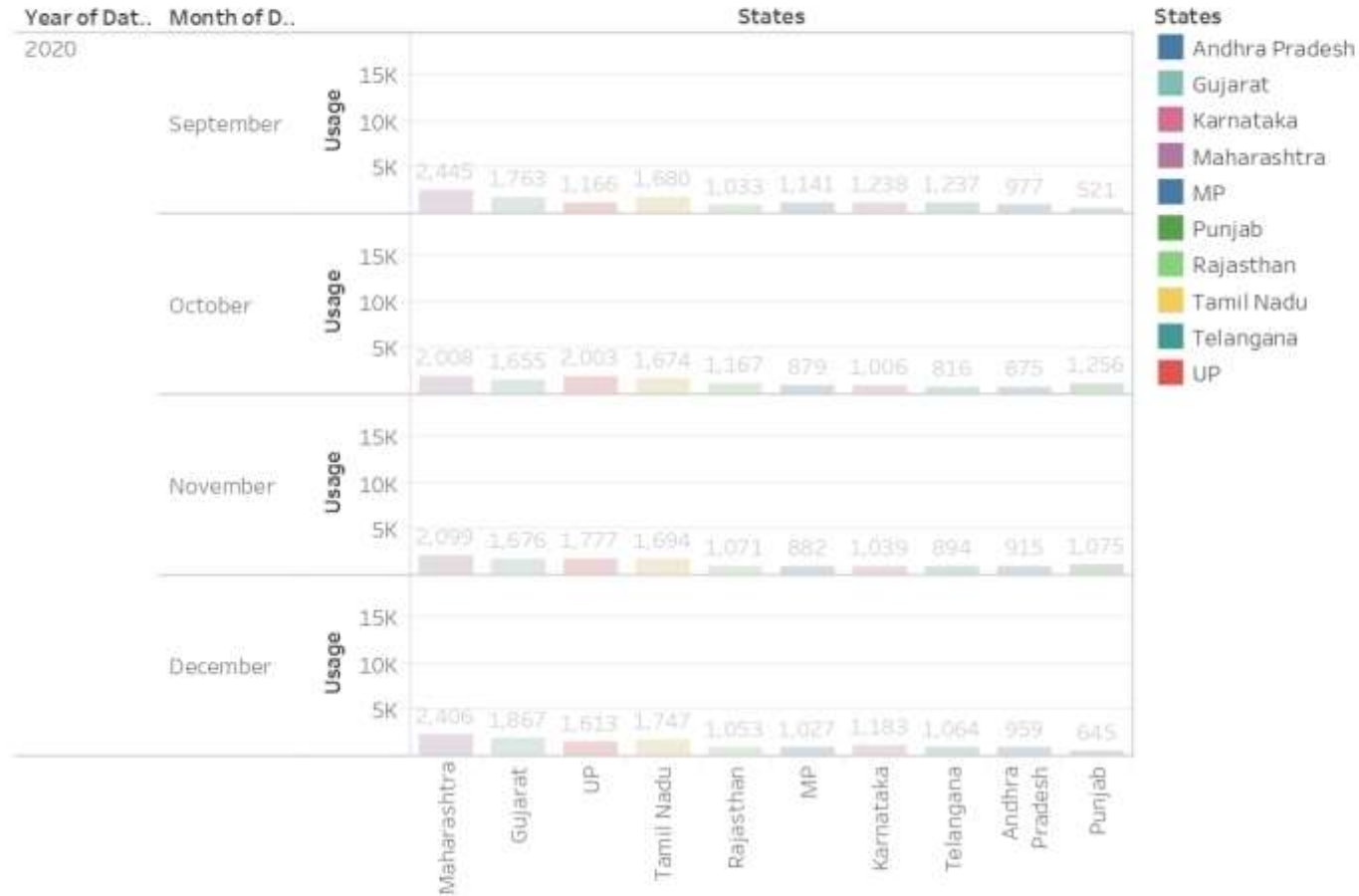
Sum of Usage for each States broken down by Dates Year and Dates Month. Color shows details about States. The view is filtered on States, which keeps 10 of 33 members.

MONTH WISE TOP CONSUMPTION



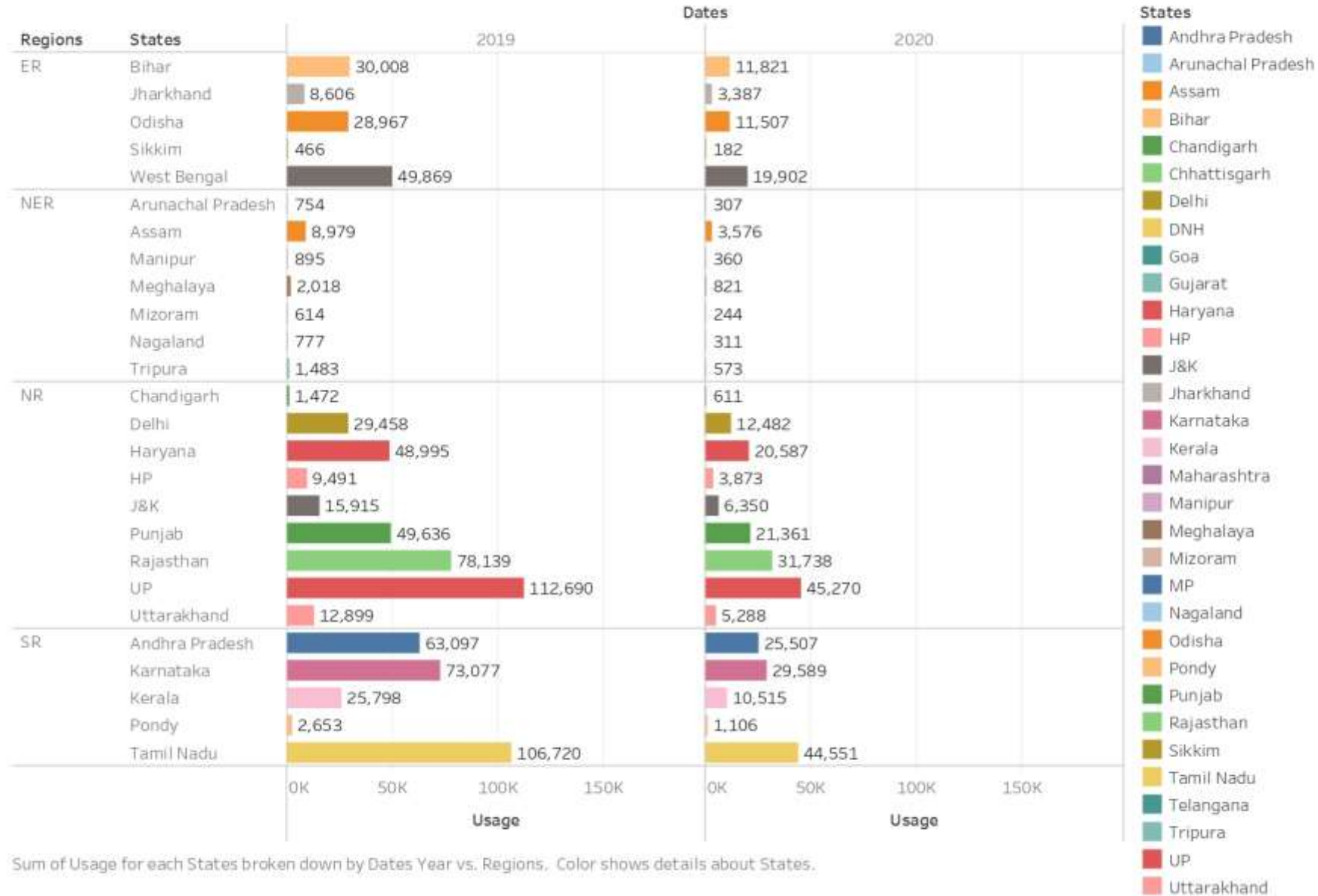
Sum of Usage for each States broken down by Dates Year and Dates Month. Color shows details about States. The view is filtered on States, which keeps 10 of 33 members.

MONTH WISE TOP CONSUMPTION



Sum of Usage for each States broken down by Dates Year and Dates Month. Color shows details about States. The view is filtered on States, which keeps 10 of 33 members.

REGION WISE STATE CONSUMPTION



REGION WISE STATE CONSUMPTION

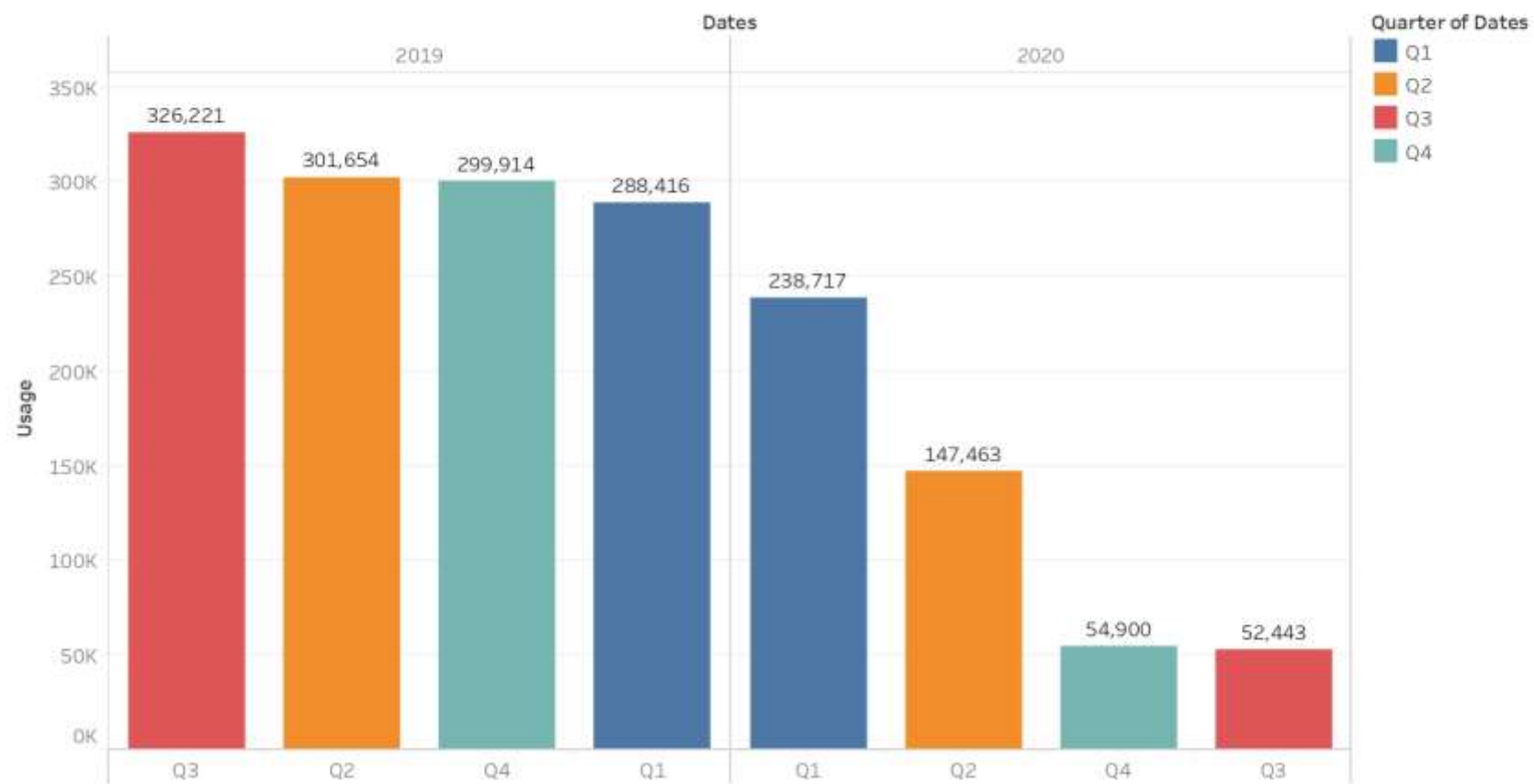


Sum of Usage for each States broken down by Dates Year vs. Regions. Color shows details about States.

States

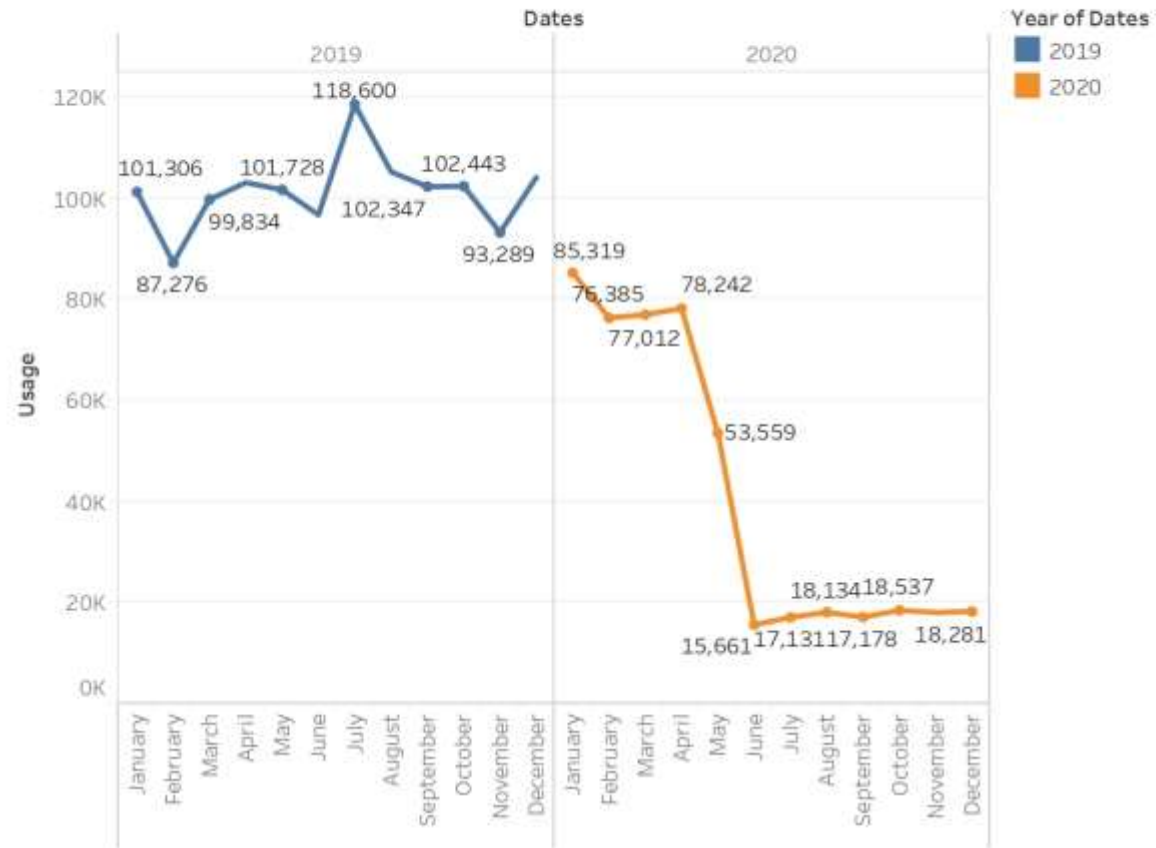
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Delhi
- DNH
- Goa
- Gujarat
- Haryana
- HP
- J&K
- Jharkhand
- Karnataka
- Kerala
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- MP
- Nagaland
- Odisha
- Pondy
- Punjab
- Rajasthan
- Sikkim
- Tamil Nadu
- Telangana
- Tripura
- UP
- Uttarakhand

QUARTER WISE USAGE



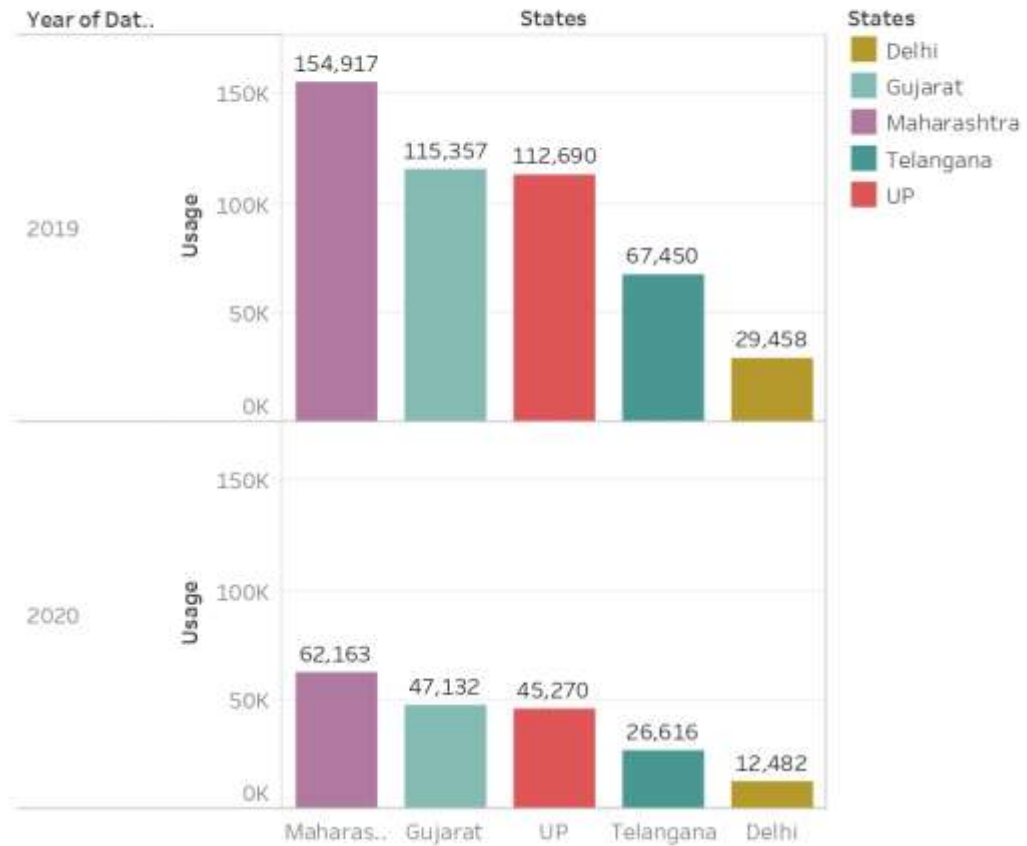
Sum of Usage for each Dates Quarter broken down by Dates Year. Color shows details about Dates Quarter.

USAGE FOR YEAR



The trend of sum of Usage for Dates Month broken down by Dates Year. Color shows details about Dates Year.

METRO CITY STATES



Sum of Usage for each States broken down by Dates Year. Color shows details about States. The view is filtered on States, which keeps Delhi, Gujarat, Maharashtra, Telangana and UP.

TASK:4

DASHBOARD

2019 STATE CONSUMPTION



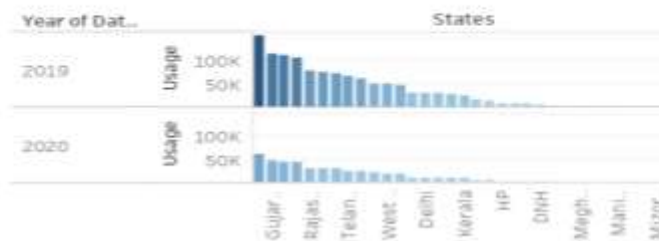
TOTAL REGION CONSUMPTION



2020 STATE CONSUMPTION



TOTAL CONSUMPTION



Dashboard 2

States

- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Delhi
- DNH
- Goa
- Gujarat
- Haryana
- HP
- J&K
- Jharkhand
- Karnataka
- Kerala
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- MP
- Nagaland
- Odisha
- Pondy
- Punjab
- Rajasthan

Regions

- ER
- NER
- NR
- SR
- WR

Usage

1,709,728

Usage

182 154,917

Regions		States		Dates	
		2019		2020	
ER	Bihar	<div><div></div></div>	30,008	<div><div></div></div>	11,821
	Jharkhand	<div><div></div></div>	8,606	<div><div></div></div>	3,387
	Odisha	<div><div></div></div>	28,967	<div><div></div></div>	11,507
	Sikkim	<div><div></div></div>	466	<div><div></div></div>	182
	West Bengal	<div><div></div></div>	49,869	<div><div></div></div>	19,902
NER	Arunachal Prad.	<div><div></div></div>	754	<div><div></div></div>	307
	Assam	<div><div></div></div>	8,979	<div><div></div></div>	3,576
	Manipur	<div><div></div></div>	895	<div><div></div></div>	360
	Meghalaya	<div><div></div></div>	2,018	<div><div></div></div>	821
	Mizoram	<div><div></div></div>	614	<div><div></div></div>	244
	Nagaland	<div><div></div></div>	777	<div><div></div></div>	311
	Tripura	<div><div></div></div>	1,483	<div><div></div></div>	573
NR	Chandigarh	<div><div></div></div>	1,472	<div><div></div></div>	611
	Delhi	<div><div></div></div>	29,458	<div><div></div></div>	12,482
	Haryana	<div><div></div></div>	48,995	<div><div></div></div>	20,587
	HP	<div><div></div></div>	9,491	<div><div></div></div>	3,873
	J&K	<div><div></div></div>	15,915	<div><div></div></div>	6,350
	Punjab	<div><div></div></div>	49,636	<div><div></div></div>	21,361
	Rajasthan	<div><div></div></div>	78,139	<div><div></div></div>	31,738
	UP	<div><div></div></div>	112,690	<div><div></div></div>	45,270
		OK	200K	OK	200K
		Usage		Usage	

Year of Data	Usage	States
2019	Usage 200K 100K	<div> <div>154,917</div> <div>115,357</div> <div>112,690</div> <div>106,720</div> <div>78,139</div> <div>74,975</div> <div>73,077</div> <div>67,450</div> <div>63,097</div> <div>49,636</div> </div>
2020	Usage 200K 100K	<div> <div>62,163</div> <div>47,132</div> <div>45,270</div> <div>44,551</div> <div>31,738</div> <div>29,792</div> <div>29,589</div> <div>26,616</div> <div>25,507</div> <div>21,361</div> </div>
		<div> <div>Mahar.</div> <div>Gujarat</div> <div>UP</div> <div>Tamil</div> <div>Rajast.</div> <div>MP</div> <div>Karnat.</div> <div>Telang.</div> <div>Andhr.</div> <div>Punjab</div> </div>

Year of Data	Usage	States
2019	Usage 200K 100K	<div>49,636</div> <div>63,097</div> <div>67,450</div> <div>73,077</div> <div>74,975</div> <div>78,139</div> <div>106,720</div> <div>112,690</div> <div>115,357</div> <div>154,917</div>
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Dashboard 3

- Bottom N
10

QUARTER WISE USAGE



2019 MONTH WISE CONSUMPTION



Quarter of Dates

- Q1
- Q2
- Q3
- Q4

Month of Dates

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

USAGE FOR YEAR



2020 MONTH WISE CONSUMPTION



Year of Dates

- 2019
- 2020

Dashboard 1

Story 1

2019 High consumption of electricity in the stat..

The year of 2020 low consumption of electricity in the stat..

Total consumption of electricity in 2019 and 2020 the high consu..

2019 and 2020 top 10 state consumption is given the flow chat.

2019 month wise consumption represented in the vis..

Dates
2019



States

- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Delhi
- Goa
- Gujarat
- Haryana
- HP
- JK
- Jharkhand
- Karnataka
- Kerala
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- MP
- Nagaland
- Odisha
- Pondy
- Punjab
- Rajasthan
- Sikkim
- Tamil Nadu
- Telangana
- Tripura
- UP
- Uttarakhand
- West Bengal

TASK:5

STORY

Story 1

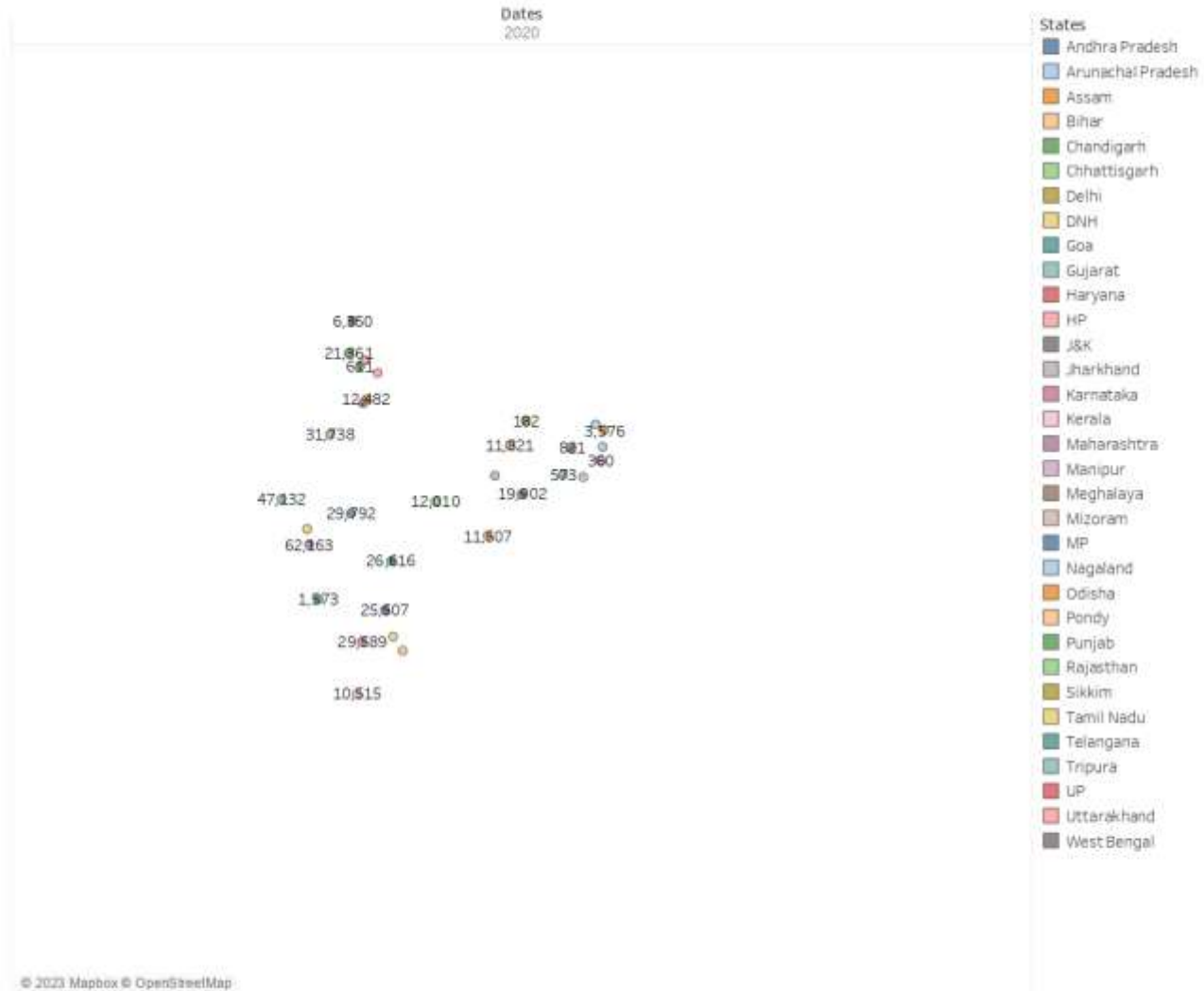
2019 High consumption of electricity in the stat...

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Total consumption of electricity in 2019 and 2020 the high consu...

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2019 month wise consumption represented in the vis...



Story 1

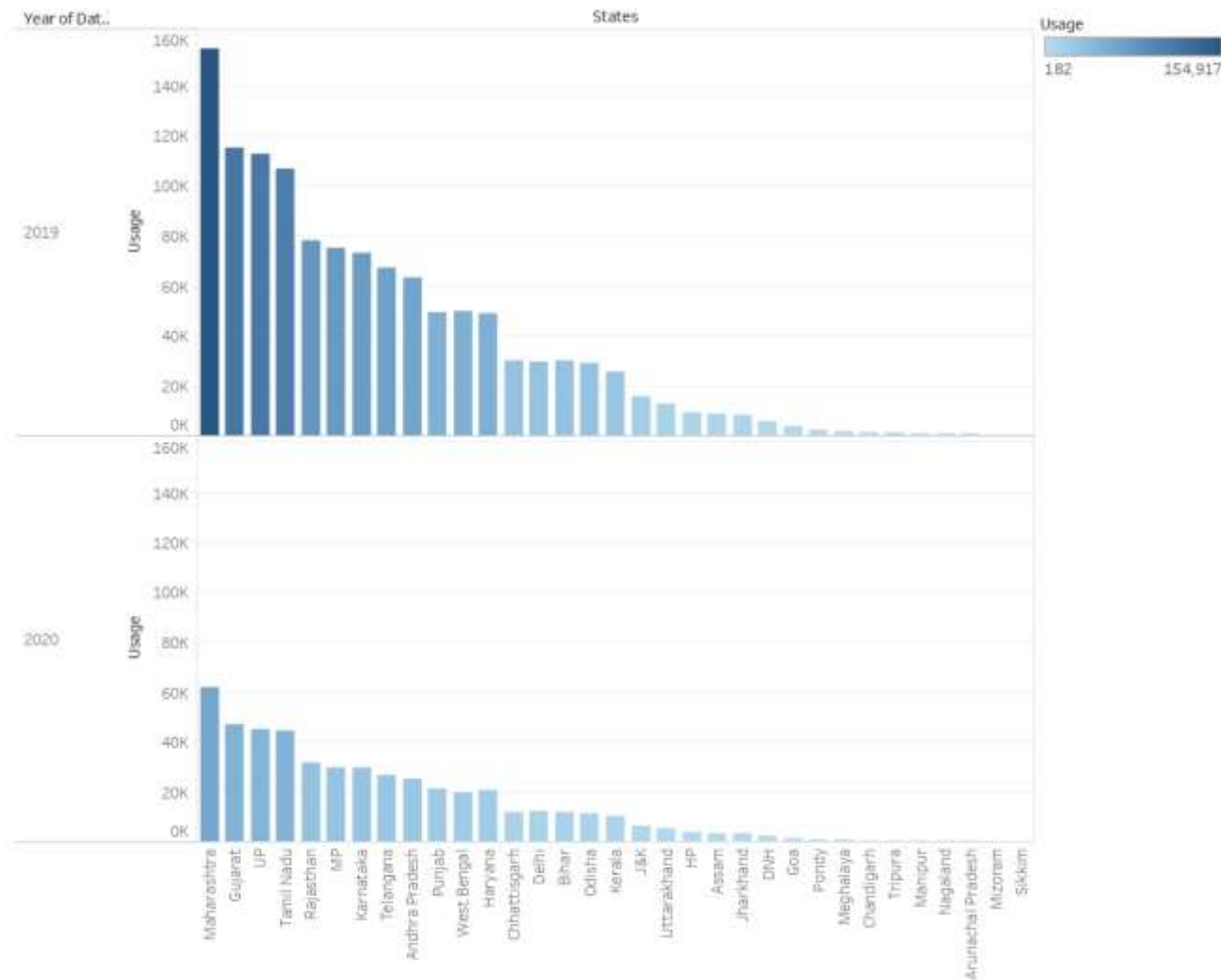
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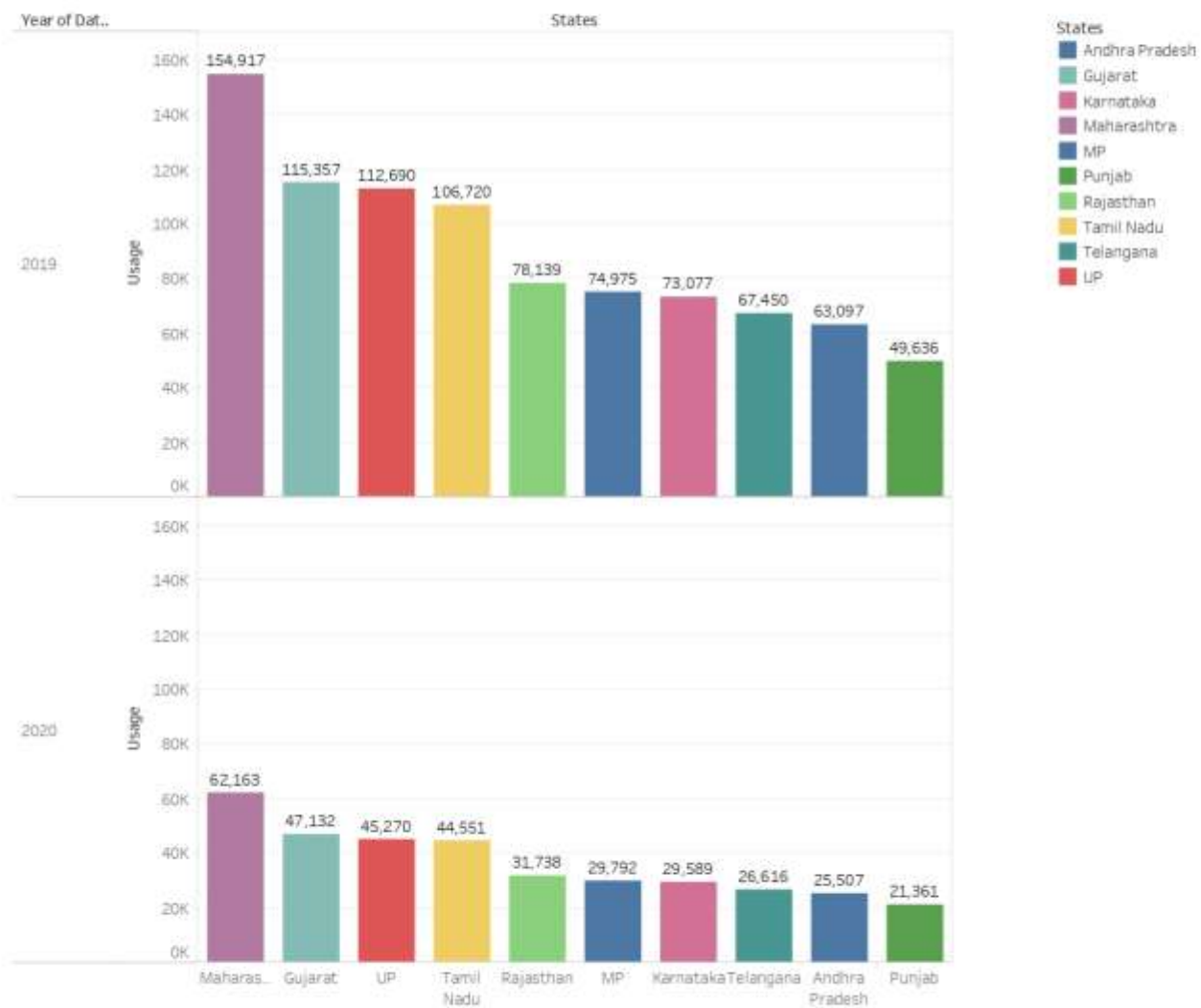
2019 High consumption of electricity in the stat.

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Story 1

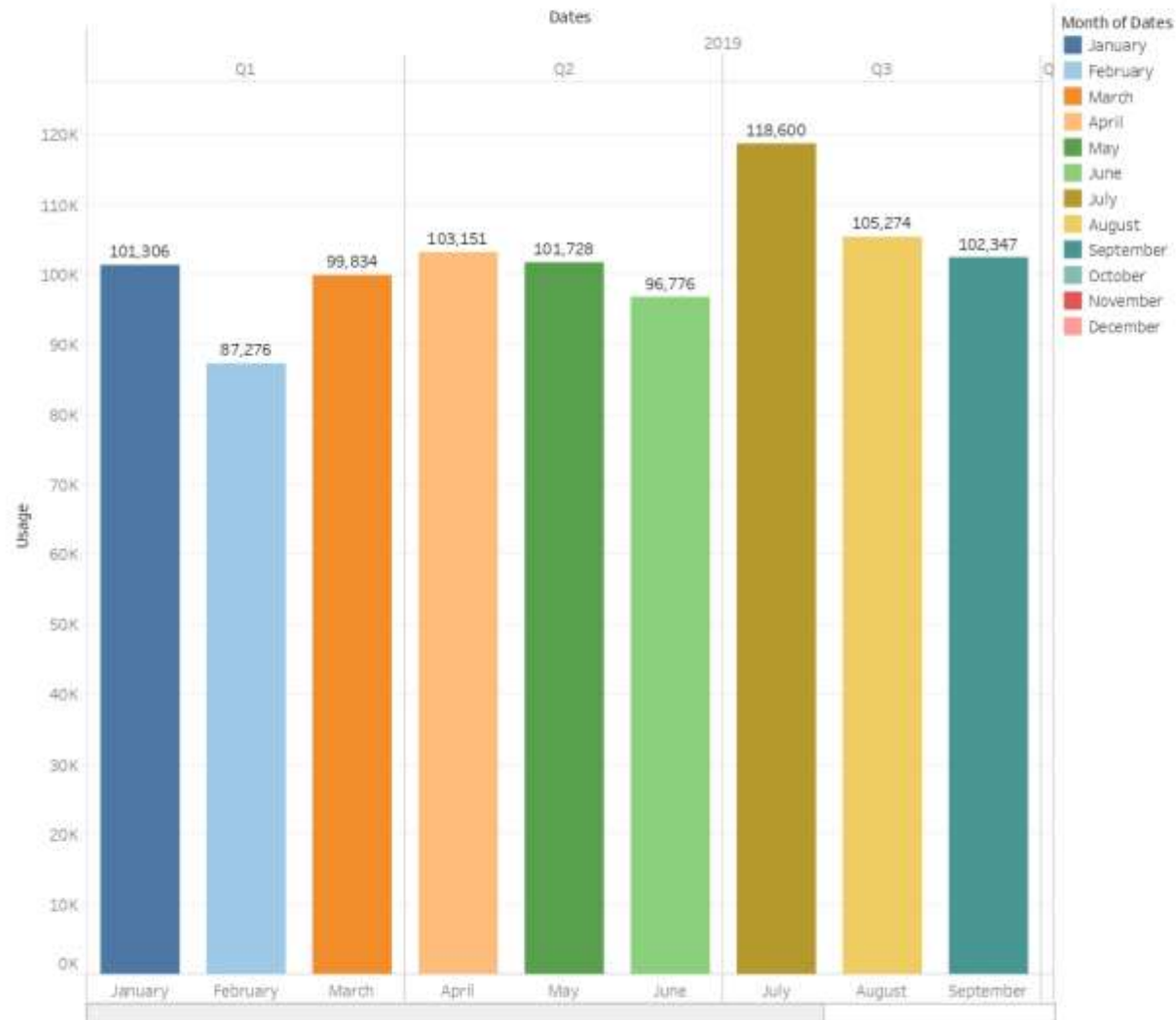
2019 High consumption of electricity in the stat.

The year of 2020 low consumption of electricity in the stat.

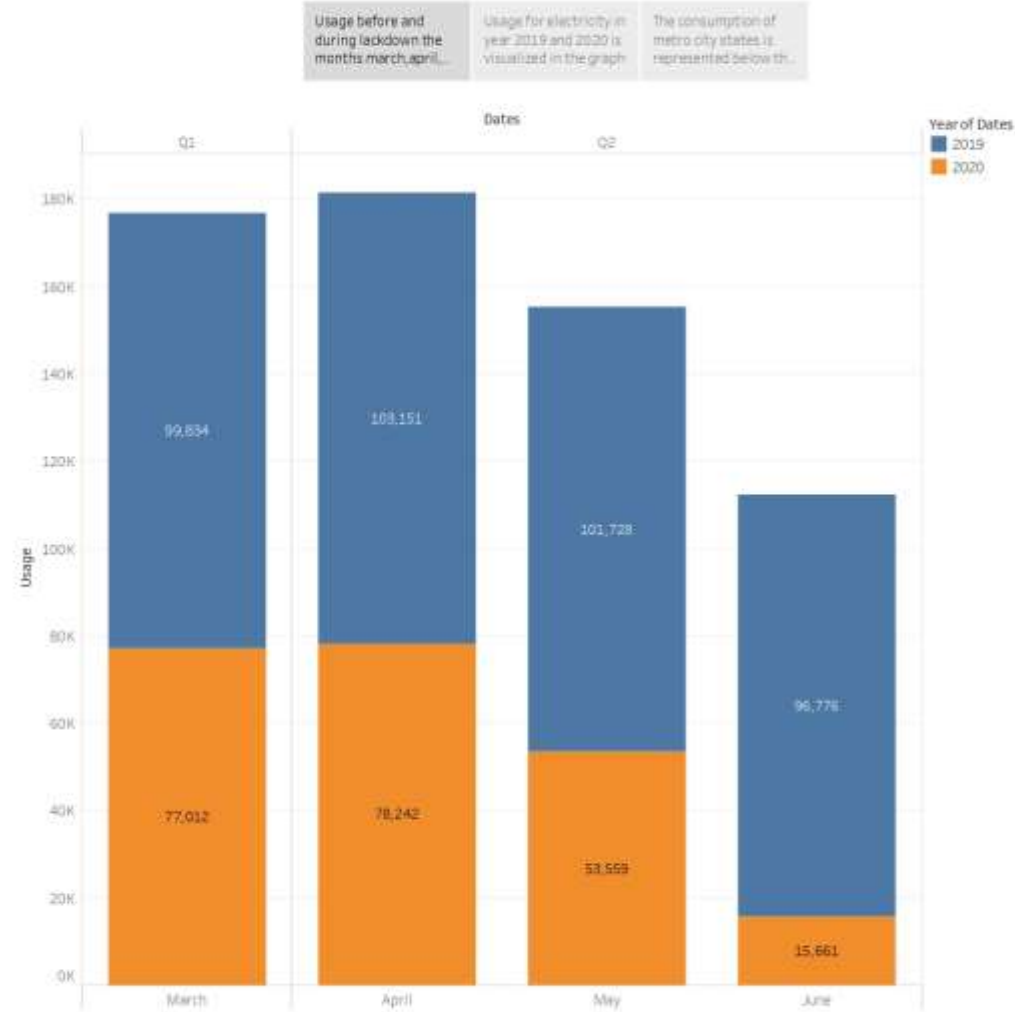
Total consumption of electricity in 2019 and 2020 the high consu.

2019 and 2020 top 10 state consumption is given the flow chat

2019 month wise consumption represented in the vis.



Story 2

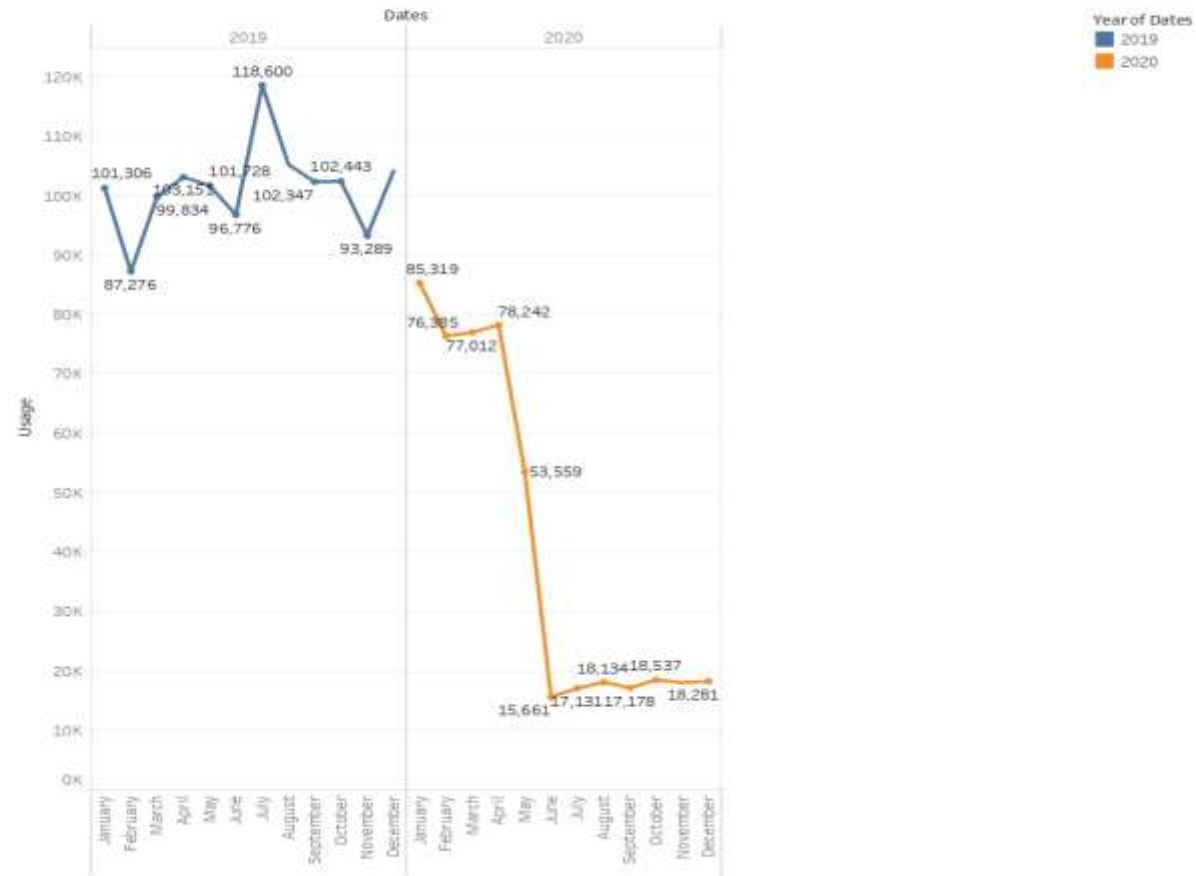


Story 2

Usage before and during lockdown the months march, april...

Usage for electricity in year 2019 and 2020 is visualized in the graph

The consumption of metro-city states is represented below th...

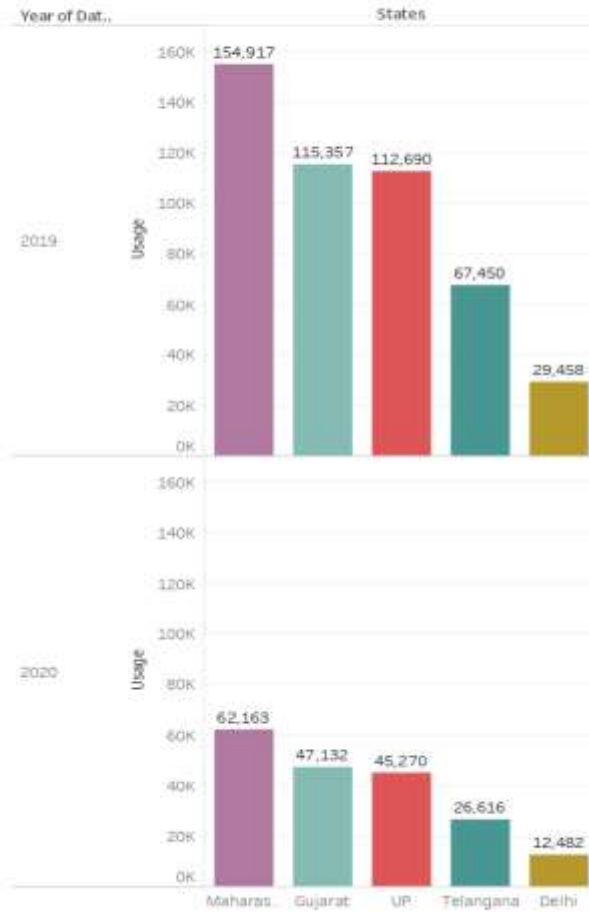


Story 2

Usage before and during lockdown the months march, april,

Usage for electricity in year 2019 and 2020 is visualized in the graph

The consumption of metro city states is represented below th..



States

- Delhi
- Gujarat
- Maharashtra
- Telangana
- UP

APPLICATION OF ELECTRICITY

- People use electricity for lighting, heating, cooling and refrigeration and for operating appliances, computers, electronics, machinery, and public transportation systems.
- The street lights on the road use electricity to function, even the pool requires electricity to heat the water in colder regions.
- The lawnmower, which is used to cut grass.
- Uses electricity to operate.
- The water splinker for the grass on the lawn uses electricity as well.

CONCLUSION

- It should be saved because it's not at all free. Energy conservation is the effort made by us to reduce the consumption of energy by using less of an energy service or using renewable energy.



